

# Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: **North America**

Global Technical Committee: **Liquid Chemicals**

TC Chapter Cochairs: **Steve Rogers (CMC Materials), Don E. Hadder (Intel), Koh Murai (Mega Fluid Systems), Laura Ledenbach (Evonik)**

Standards Staff: **Laura Nguyen**

	Scheduled in Background Statement	Actual
Date	04/05/2023	04/05/2023
Location	SEMI HQ, Milpitas, CA/USA	SEMI HQ, Milpitas, CA/USA
Reason for Change of Date and/or Location (if changed)		

Note: See *Regulations* ¶ 9.5 Exceptions for allowable reason to change.

## I. Document Number and Title

Document Number	Document Title
6715	New Standard: Guide for Evaluating Metrology for Particle Precursors in Ultrapure Water

## 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* ¶ 9.6.2.1.1)

Voting Tally (with example values):

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	60	÷ 97	= 61.9%	≥60%
Intercommittee Ballot	16			
Voting Interest Reject(s)	2	Total Voters with Rejects		2
Voting Interest Accept(s)	48			

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

### III. Rejects

#### Voting Interest Reject 1 (Voting Interest Name: **Guru**)

#### Voter Reject 1 (Voter: **Eric Sklar / Safety Guru**)

#### Negative 1

Negative	Referenced Section/ Paragraph	1.2			
	Negative Text	<i>Negative:</i> Relocate this paragraph or make it a NOTE that explains the preceding paragraph. <i>Reason/Justification:</i> This is not a statement of the purpose of this Guide.			
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection	
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	Editorial in nature.		
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC			
	Discussion	None			
	Result of Vote (check one)	18 Y 0 N; Motion passed.			
<input checked="" type="checkbox"/>		2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)		
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)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)	
	(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-1.		

**Negative 2**

<b>Negative</b>	<b>Referenced Section/ Paragraph</b>	1.2, 5.2.1, et al.		
	<b>Negative Text</b>	<p><i>Negative:</i> Explain the intended meaning of “molecular” in these sentences or remove the word.</p> <p><i>Reason/Justification:</i> A "molecular compound", IIRC, is one that forms discrete molecules, usually by covalent bonding, such as CH4. Contrarily, an "ionic compound" is one that has specific ratios among its atomic constituents, but not discrete molecules and the bonding is ionic. KCl, for example, is an ionic compound.</p> <p>Ironically, KCl is what is used in this Guide as the test case of a compound that forms particles when water in which it is dissolved dries, so the method is being validated for measurement of an ionic compound, not a molecular compound. If there's no difference between how one measures particles formed from ionic compounds and how one measures particles from molecular compounds, then just dropping the "molecular" throughout the Guide appears to be a simple solution. If there is a difference, then this Guide appears to fail to address its primary purpose.</p>		
	<b>Withdrawal (check one)</b>	<input checked="" type="checkbox"/> No Negative withdrawal made by Voter.	<b>GO TO “Related” subsection</b>	
<b>Related</b>	<b>Motion and Reason (check one)</b>	<input checked="" type="checkbox"/> ‘Related’ is mutually agreed upon. <b>(Needs no motion.)</b>	<b>GO TO “Persuasive” subsection</b>	
<b>Persuasive</b>	<b>Motion and Reason (check one)</b>	<input type="checkbox"/> Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>		
		<input checked="" type="checkbox"/> Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b>		
		<b>Reason</b>	Editorial in nature.	
	<b>Motion by/ 2<sup>nd</sup> by</b>	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC		
	<b>Discussion</b>	None		
	<b>Result of Vote (check one)</b>	18 Y 0 N; Motion passed.		
	<input checked="" type="checkbox"/> $\frac{2}{3} \leq [\text{Negative is related and not persuasive.}] < 90\%$	<b>GO TO “Final” subsection → (C)</b>		
<b>Final</b>	<b>(check if applicable)</b>	<input type="checkbox"/> <b>(A)</b>	Withdrawn <b>(counted under h in disposition)</b>	
		<input type="checkbox"/> <b>(B)</b>	Not related <b>(counted under i in disposition)</b>	
		<input checked="" type="checkbox"/> <b>(C)</b>	Related and not persuasive (significant)	
		<input type="checkbox"/> <b>(D)</b>	Not significant <b>(counted under j in disposition)</b>	
		<input type="checkbox"/> <b>(E)</b>	Related and persuasive and not addressed by technical change	<b>DOCUMENT FAILS</b>
		<input type="checkbox"/> <b>(F)</b>	Addressed by technical change <b>(counted under k disposition)</b>	
	<b>(check if applicable)</b>	<input checked="" type="checkbox"/>	Comment generated. <b>See Section V-(ii) Comment # NC-2.</b>	

### Negative 3

Negative	Referenced Section/ Paragraph	2.1.1 through 2.1.4			
	Negative Text	<i>Negative:</i> Make these bullet items; do not number them as if they were paragraphs. <i>Reason/Justification:</i> These are not paragraphs and should not be numbered as it they were. As there's no obvious reason the order matters, they should be bulleted.			
	Withdrawal (check one)	X	No Negative withdrawal made by Voter.	GO TO "Related" subsection	
Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection	
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	Conforms to the Style Manual (SM). Per SM 1-10(6), it is recommended that these be numbered "Avoid excessive use of bulleted lists, instead use the section heading format (refer to #1-4)."		
		Motion by/ 2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC		
		Discussion	None		
		Result of Vote (check one)		18 Y 0 N; Motion passed.	
		X	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)	
Final	(check if applicable)		(A)	Withdrawn (counted under h in disposition)	
			(B)	Not related (counted under i in disposition)	
		X	(C)	Related and not persuasive (significant)	
			(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)	

### Negative 4

Negative	Referenced Section/ Paragraph	2.2.1 through 2.2.3		
	Negative Text	<i>Negative:</i> Make these bullet items; do not number them as if they were paragraphs. <i>Reason/Justification:</i> These are not paragraphs and should not be numbered as it they were. As there's no obvious reason the order matters, they should be bulleted.		
	Withdrawal (check one)	X	No Negative withdrawal made by Voter.	GO TO "Related" subsection
Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
	Motion and Reason		Negative is related and persuasive. (Needs >1/3 votes to pass.)	

Persuasive	(check one)	<input checked="" type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)		
			Reason	Conforms to the Style Manual (SM). Per SM 1-10(6), it is recommended that these be numbered "Avoid excessive use of bulleted lists, instead use the section heading format (refer to #1-4)."	
	Motion by/ 2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC			
	Discussion	None			
	Result of Vote (check one)	18 Y 0 N; Motion passed.			
	<input checked="" type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)		
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)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change	(counted under k disposition)

### Negative 5

Negative	Referenced Section/ Paragraph	2.4		
	Negative Text	<i>Negative:</i> Change "step such as nebulization, atomization, to" to "step such as nebulization, <u>or</u> atomization, to". <i>Reason/Justification:</i> As there are only two items in the list, they should be separated by a conjunction, not a comma.		
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
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	The paragraph already appears in correct form.	
	Motion by/ 2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC		
	Discussion	None		
Result of Vote (check one)	18 Y 0 N; Motion passed.			
	<input checked="" type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)	
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)
	<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change <b>DOCUMENT FAILS</b>
	<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)

### Negative 6

Negative	Referenced Section/ Paragraph	2.5	
	Negative Text	<p><i>Negative:</i> Change “either instrument manufacturers or instrument users” to “<del>either</del> instrument manufacturers <del>or</del> and instrument users”.</p> <p><i>Reason/Justification:</i> As far as I can tell, both groups are within the intended audience.</p>	
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter. <b>GO TO “Related” subsection</b>
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	‘Related’ is mutually agreed upon. (Needs no motion.) <b>GO TO “Persuasive” subsection</b>
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	Editorial in nature.
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC	
	Discussion	None	
	Result of Vote (check one)	18 Y 0 N; Motion passed.	
<input checked="" type="checkbox"/>		2/3 ≤ [Negative is related and not persuasive.] < 90%	<b>GO TO “Final” subsection → (C)</b>
<input type="checkbox"/>		90% ≤ [Negative is related and not persuasive.]	<b>GO TO “Not Significant Finding Option” subsection</b>
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)
		<input type="checkbox"/>	(E) Related and persuasive and not addressed by technical change <b>DOCUMENT FAILS</b>
		<input type="checkbox"/>	(F) Addressed by technical change (counted under k disposition)
	(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) <b>Comment # NC-3.</b>

**Negative 7**

Negative	Referenced Section/ Paragraph	3.1			
	Negative Text	<p>Negative: Clarify whether it is whether particle precursors in liquid chemicals are a problem what is being determined  Reason/Justification: ? That's what this says, but the question occurred to me that what is being determined is how to develop test methods for particle precursors in liquid chemicals.</p>			
Withdrawal (check one)		<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection	
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	Editorial in nature.	
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC			
	Discussion	None			
	Result of Vote (check one)	<input checked="" 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)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)	
	(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-4.		

**Negative 8**

Negative	Referenced Section/ Paragraph	3.4		
	Negative Text	<p>Negative: Clarify what the concern is.  Reason/Justification: Is the concern that things other than "particle precursors" can form particles on wafers, or that there are particles in UPW than will be found on wafers after drying and artificially increase the observed level of contamination?</p>		
Withdrawal (check one)		<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection

Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)		GO TO "Persuasive" subsection	
	Motion and Reason (check one)		Negative is related and persuasive. (Needs >1/3 votes to pass.)			
Persuasive	Motion and Reason (check one)	X	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)			
			Reason	Editorial in nature.		
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC				
	Discussion	None				
	Result of Vote (check one)	18 Y 0 N; Motion passed.				
		X	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			
Final	(check if applicable)		(A)	Withdrawn (counted under h in disposition)		
			(B)	Not related (counted under i in disposition)		
		X	(C)	Related and not persuasive (significant)		
			(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)	X	Comment generated. See Section V-(ii) Comment # NC-5.			

### Negative 9

Negative	Referenced Section/ Paragraph	5.3			
	Negative Text	Negative: Move these items to §5.1 and delete ¶5.3 Reason/Justification: These are abbreviations, not "symbols".			
	Withdrawal (check one)	X	No Negative withdrawal made by Voter.		GO TO "Related" subsection
Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)		GO TO "Persuasive" subsection
	Persuasive	Motion and Reason (check one)		Negative is related and persuasive. (Needs >1/3 votes to pass.)	
Motion and Reason (check one)		X	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)		
			Reason	Editorial in nature.	
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC			
	Discussion	None			



	<b>Result of Vote (check one)</b>	18 Y 0 N; Motion passed.		
	<input checked="" 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	
<b>Final</b>	<b>(check if applicable)</b>	<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)	
		<input type="checkbox"/>	(E) Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F) Addressed by technical change (counted under k disposition)	
<b>(check if applicable)</b>	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-6.		

### Negative 10

<b>Negative</b>	<b>Referenced Section/ Paragraph</b>	6.1.1.1 through 6.1.1.5		
	<b>Negative Text</b>	<i>Negative:</i> Make these bullet items; do not number them as if they were paragraphs. <i>Reason/Justification:</i> These are not paragraphs and should not be numbered as it they were. As there's no obvious reason the order matters, they should be bulleted.		
	<b>Withdrawal (check one)</b>	<input checked="" type="checkbox"/> No Negative withdrawal made by Voter.	GO TO “Related” subsection	
<b>Related</b>	<b>Motion and Reason (check one)</b>	<input checked="" type="checkbox"/> ‘Related’ is mutually agreed upon. (Needs no motion.)	GO TO “Persuasive” subsection	
<b>Persuasive</b>	<b>Motion and Reason (check one)</b>	<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.)	
	<b>Reason</b>	Conforms to the Style Manual (SM). Per SM 1-10(6), it is recommended that these be numbered “Avoid excessive use of bulleted lists, instead use the section heading format (refer to #1-4).”		
	<b>Motion by/ 2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC		
	<b>Discussion</b>	None		
	<b>Result of Vote (check one)</b>	18 Y 0 N; Motion passed.		
	<input checked="" type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO “Final” subsection → (C)	
<b>Final</b>	<b>(check if applicable)</b>	<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)	
		<input type="checkbox"/>	(E) Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F) Addressed by technical change (counted under k disposition)	

## Negative 11

Negative	Referenced Section/ Paragraph	6.1.1.5				
	Negative Text	<p><i>Negative:</i> Delete this criterion.  <i>Reason/Justification:</i> If “from time of publishing this Guide” is meant to refer to time before publication, I don’t see any relevance of this criterion to the legitimacy of the standard. Contrarily, if it is meant to refer to the time after publication, the criterion has the effect of precluding use of this Guide for five years after its publication, as it will take that long for there to be a standard material that can be known to meet this criterion.</p>				
	Withdrawal (check one)	X	No Negative withdrawal made by Voter.		GO TO “Related” subsection	
Related	Motion and Reason (check one)	X	‘Related’ is mutually agreed upon. (Needs no motion.)		GO TO “Persuasive” subsection	
Persuasive	Motion and Reason (check one)	X	Negative is related and persuasive. (Needs >1/3 votes to pass.)			
	Motion by/ 2 <sup>nd</sup> by	By: vyacheslav Libman / FTD Solutions LLC Second: Bob McIntosh / GF Piping Systems				
	Discussion	None				
	Result of Vote (check one)	19 Y 0 N; Motion passed.				
		X	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	X	Y
		[Negative is related and not persuasive.] < 2/3			N	GO TO “Final” subsection → (E)
Address by Technical Change Option	<b>Technical Change Recommendations</b> Original section/paragraph number and at least one full sentence are required in “FROM” and “TO” fields.					
	Technical Changes	<p><b>FROM: Section/Paragraph 6.1.1.5 and 7.1.1.1</b></p> <p>6.1.1.5 Available for at least five years from time of publishing this Guide.  .....</p> <p>7.1.1.1 To our knowledge, the only available standard that meets the criteria described in ¶ 6.1.1 is BAM-N008 , a 6 nm nominal diameter silver nanoparticle reference nanomaterial from Bundesanstalt für Materialforschung und-prüfung (BAM), the German Federal Institute for Materials Research and Testing. Therefore, the acceptable size range criteria for particle sizing accuracy is based on BAM-N008. Refer to Appendix 1 for basis of this range including validation data.</p> <p><b>TO: Section/Paragraph 6.1.1.5 and 7.1.1.1</b></p> <p><del>6.1.1.5 Available for at least five years from time of publishing this Guide.</del>  .....</p> <p>7.1.1.1 To our knowledge, the only available standard that meets the criteria described in ¶ <b>Error! Reference source not found.</b>is BAM-N008<sup>1</sup>, a 6 nm nominal diameter silver nanoparticle reference nanomaterial <u>that is expected to be available for at least 8 years at the time of publishing this Guide</u> from Bundesanstalt für Materialforschung und-prüfung (BAM), the German Federal Institute for Materials Research and Testing. Therefore, the acceptable size range criteria for particle sizing accuracy is based on BAM-N008. Refer to Appendix 1 for basis of this range including validation data.</p>				

<sup>1</sup> [https://rrr.bam.de/RRR/Content/EN/Downloads/RM-Certificates/RM-nanomaterials/bam\\_n008\\_repe.html](https://rrr.bam.de/RRR/Content/EN/Downloads/RM-Certificates/RM-nanomaterials/bam_n008_repe.html)

		<b>Justification (if necessary)</b> The >5 year criteria was our internal task force criteria for selecting this specific standard that was tested, but this criterion is actually not relevant for the user and does not impact the legitimacy of the tests related to Step 1. Additionally, the user may not know how long a standard will be available.	
	<b>Motion</b>	Negative is addressed by the technical change(s).	
	<b>Motion by/2<sup>nd</sup> by</b>	By: Bonnie Marion / FTD Solutions LLC Second: Paul Kerr / Intel Corporation	
	<b>Discussion</b>	None	
	<b>Result of Vote (check one)</b>	18 Y 0 N; Motion passed.	
		<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)
<b>Technical Change</b>	<b>Motion</b>	To incorporate the technical change(s).	
	<b>Motion by/2<sup>nd</sup> by</b>	By: Darren Conner / Evantic Second: Alan Knapp / Evoqua Water Technologies LLC	
	<b>Discussion</b>	None	
	<b>Result of Vote (check one)</b>	18 Y 0 N; Motion passed.	
		<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)	
<b>Final</b>	<b>(check if applicable)</b>	<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)

## Negative 12

<b>Negative</b>	<b>Referenced Section/ Paragraph</b>	6.1.1.1	
	<b>Negative Text</b>	Negative: Do not capitalize "International Standards Organization". Reason/Justification: I am not aware of any organization that has that name. There is the "International Organization for Standardation", the abbreviation for which, "ISO", does (I concede) suggest that it is named the "International Standards Organization". More importantly, I'm not at all sure you can find a reference material that is traceable to ISO. Furthermore, why is "international" important? NIST has a variety of Standard Reference Materials, and the material described in this document appears to be from a German organization, not an "international" one.	
	<b>Withdrawal (check one)</b>	<input checked="" type="checkbox"/> No Negative withdrawal made by Voter.	GO TO "Related" subsection
<b>Related</b>	<b>Motion and Reason (check one)</b>	<input checked="" type="checkbox"/> 'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection

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	Editorial in nature.		
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC				
	Discussion	None				
	Result of Vote (check one)	18 Y 0 N; Motion passed.				
<input checked="" 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)		
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS	
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)		
	(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-7.			

### Negative 13

Negative	Referenced Section/ Paragraph	6.1.1.1			
	Negative Text	<p>Negative: Remove "international" from the criterion.  Reason/Justification: I'm not at all sure you can find a reference material that is traceable to ISO or any other international organization.. I also don't see why "international" is important? NIST (A US government agency) has a variety of Standard Reference Materials, and the material described in this document appears to be from a German organization, not an "international" one.</p>			
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.		GO TO "Related" subsection
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)		GO TO "Persuasive" subsection
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	Already addressed by Comment #NC-7 (SG12)	
	Motion by/ 2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC			

	Discussion	None		
	Result of Vote (check one)	18 Y 0 N; Motion passed.		
		<input checked="" type="checkbox"/> 2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)	
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)	
		<input type="checkbox"/> (E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/> (F)	Addressed by technical change (counted under k disposition)	

### Negative 14

Negative	Referenced Section/ Paragraph	7.1.1		
	Negative Text	<p><i>Negative:</i> Provide guidance as to what one is to do if one performs the measurements and gets a value outside of this range.</p> <p><i>Reason/Justification:</i> Put another way, if I don't get the foreseen result, does that mean my method is fundamentally defective or does it mean that I need to do something a bit differently?</p>		
	Withdrawal (check one)	<input checked="" type="checkbox"/> No Negative withdrawal made by Voter.	GO TO "Related" subsection	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/> 'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection	
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	not within scope of this document and guidance would vary by instrument.	
	Motion by/ 2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC		
	Discussion	None		
	Result of Vote (check one)	18 Y 0 N; Motion passed.		
		<input checked="" type="checkbox"/> 2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)	
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)	
		<input type="checkbox"/> (E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/> (F)	Addressed by technical change (counted under k disposition)	

## Negative 15

Negative	Referenced Section/ Paragraph	7.1.1 and 7.1.3				
	Negative Text	Negative: Specify the concentration to be used in 7.1.1. Reason/Justification: "Additional" (in 7.1.3) to what? I don't see a concentration specified in 7.1.1.				
	Withdrawal (check one)	X	No Negative withdrawal made by Voter.			GO TO "Related" subsection
Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)			GO TO "Persuasive" subsection
Persuasive	Motion and Reason (check one)	X	Negative is related and persuasive. (Needs >1/3 votes to pass.)			
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC				
	Discussion	None				
	Result of Vote (check one)	18 Y 0 N; Motion passed.				
		X	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	X	Y
		[Negative is related and not persuasive.] < 2/3			N	GO TO "Final" subsection → (E)
Address by Technical Change Option	<b>Technical Change Recommendations</b> Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.					
	Technical Changes	<b>FROM: Section/Paragraph 7.1.1</b>  7.1.1 <i>Initial Particle Sizing Accuracy</i> — The average reported particle diameter (number-weighted peak diameter) for five replicate measurements of the reference nanomaterial should be between 5.3 and 9.3 nm. The replicates should be measured once per day for five consecutive days.				
		<b>TO: Section/Paragraph 7.1.1</b>  7.1.1 <i>Initial Particle Sizing Accuracy</i> — The average reported particle diameter (number-weighted peak diameter) for five replicate measurements of the reference nanomaterial should be between 5.3 and 9.3 nm. The replicates should be measured once per day for five consecutive days. <a href="#">This validation step is only for sizing, not concentration, so a recommended concentration is intentionally not defined here. The user should select a concentration appropriate for the instrument being evaluated.</a>				
		<b>Justification (if necessary)</b> Added clarity to 7.1.1. ¶ 7.1.3 specifies that these are additional to concentration used for initial particle sizing accuracy in ¶ 7.1.1. so no change needed.				
	Motion	Negative is addressed by the technical change(s).				
	Motion by/2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC				
Discussion	None					
Result of Vote	17 Y 0 N; Motion passed.					

	(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/2 <sup>nd</sup> by	By: Darren Conner / Evantic Second: Alan Knapp / Evoqua Water Technologies LLC		
		Discussion	None		
Result of Vote (check one)	18 Y 0 N; Motion passed.				
	<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)	

### Negative 16

Negative	Referenced Section/ Paragraph	7.1.1.1		
	Negative Text	Negative: Replace “our knowledge” with “the knowledge of the task force that developed this Guide” Reason/Justification: “Our” is too informal and begs the question of to whom the pronoun refers.		
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO “Related” subsection
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	‘Related’ is mutually agreed upon. (Needs no motion.)	GO TO “Persuasive” subsection
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	Editorial in nature.		
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC		
	Discussion	None		
Result of Vote (check one)	18 Y 0 N; Motion passed.			
	<input checked="" 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)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)	
	(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-8.		

### Negative 17

Negative	Referenced Section/ Paragraph	7.1.1.1			
	Negative Text	<p>Negative: Correct the cross-reference.  Reason/Justification: The only criterion in ¶6.1.1 is that the material be “traceable”. If you meant to refer to ¶6.1.1 and its subordinate paragraphs, then refer to “§6.1.1”. Alternatively, make the items subordinate to ¶6.1.1 a bulleted list, rather than numbering them as if they were paragraphs, so that “¶6.1.1” refers to the items in that list.</p>			
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO “Related” subsection	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	‘Related’ is mutually agreed upon. (Needs no motion.)	GO TO “Persuasive” subsection	
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	Editorial in nature.		
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC			
	Discussion	None			
Result of Vote (check one)	<input type="checkbox"/>	18 Y 0 N; Motion passed.			
	<input checked="" 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)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)	
	(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-9.		



### Negative 18

Negative	Referenced Section/ Paragraph	7.1.2		
	Negative Text	<i>Negative:</i> Provide guidance as to what one is to do if one performs the measurements and gets a value outside of this range. <i>Reason/Justification:</i> Put another way, if I don't get the foreseen result, does that mean my method is fundamentally defective or does it mean that I need to do something a bit differently?		
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter. <b>GO TO "Related" subsection</b>	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. <b>(Needs no motion.)</b> <b>GO TO "Persuasive" subsection</b>	
Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>	
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b>	
		Reason	not within scope of this document and guidance would vary by instrument.	
	Motion by/ 2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC		
	Discussion	None		
	Result of Vote (check one)	18 Y 0 N; Motion passed.		
	<input checked="" type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	<b>GO TO "Final" subsection → (C)</b>	
Final	(check if applicable)	<input type="checkbox"/>	(A) Withdrawn <b>(counted under h in disposition)</b>	
		<input type="checkbox"/>	(B) Not related <b>(counted under i in disposition)</b>	
		<input checked="" type="checkbox"/>	(C) Related and not persuasive (significant)	
		<input type="checkbox"/>	(D) Not significant <b>(counted under j in disposition)</b>	
		<input type="checkbox"/>	(E) Related and persuasive and not addressed by technical change	<b>DOCUMENT FAILS</b>
		<input type="checkbox"/>	(F) Addressed by technical change <b>(counted under k disposition)</b>	

### Negative 19

Negative	Referenced Section/ Paragraph	Note 3 after 7.1.2	
	Negative Text	<i>Negative:</i> Change "month (refer to Appendix 1)." to "month_ (#Refer to Appendix 1_)" <i>Reason/Justification:</i> Correct grammar.	
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter. <b>GO TO "Related" subsection</b>
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. <b>(Needs no motion.)</b> <b>GO TO "Persuasive" subsection</b>
	Motion and Reason	<input type="checkbox"/>	Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>

Persuasive	(check one)	<input checked="" type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)			
			Reason	No change, what was balloted is correct because it conforms to preferred parenthetical expression style in the SM.		
	Motion by/ 2 <sup>nd</sup> by	By: David Kandiyeli / Mega Fluid Systems, Inc. Second: Alan Knapp / Evoqua Water Technologies LLC				
	Discussion	None				
Final	Result of Vote (check one)	16 Y 0 N; Motion passed.				
		<input checked="" type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)		
	(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)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS	
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)		

## Negative 20

Negative	Referenced Section/ Paragraph	7.1.3				
	Negative Text	<i>Negative:</i> Change "must" to "should". <i>Reason/Justification:</i> "Must" means is caused to be by some external agent. For example, a rock released in a gravitational field "must" fall. As this is a Guide, the appropriate auxiliary verb is "should".				
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.			GO TO "Related" subsection
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)			GO TO "Persuasive" subsection
Persuasive	Motion and Reason (check one)	<input checked="" type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)			
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Laura Ledenbach / Peroxy Chem				
	Discussion	None				
	Result of Vote (check one)	19 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)
Add less	<b>Technical Change Recommendations</b> Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.					

Technical Changes	FROM: Section/Paragraph 7.1.3		
	7.1.3 Concentration Effect on Sizing — The reported particle diameter for five replicate measurements at two additional concentrations must be within ±5% of the averaged value measured in ¶ 7.1.1.		
	TO: Section/Paragraph 7.1.3		
1	7.1.3 Concentration Effect on Sizing — The reported particle diameter for five replicate measurements at two additional concentrations <del>must</del> <u>should</u> be within ±5% of the averaged value measured in ¶ 7.1.1.		
	<b>Justification (if necessary)</b>		
	This document is a Guide, so all of the criteria are recommendations, not requirements. The proper verb here is “should” rather than “must”.		
Motion	Negative is addressed by the technical change(s).		
Motion by/2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Paul Kerr / Intel Corporation		
Discussion	None		
Result of Vote (check one)	18 Y 0 N; Motion passed.		
	<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/2 <sup>nd</sup> by	By: Bonnie Marion / FTD Solutions LLC Second: Alan Knapp / Evoqua Water Technologies LLC	
	Discussion	None	
	Result of Vote (check one)	19 Y 0 N; Motion passed.	
<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)

### Negative 21

Negative	Referenced Section/ Paragraph	NOTE 4 after 7.1.3
	Negative Text	Negative: Delete the parenthetical “, etc.” Reason/Justification: It is redundant to state “for example”, list examples, then state “and others”.

	<b>Withdrawal (check one)</b>	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	<b>GO TO "Related" subsection</b>	
<b>Related</b>	<b>Motion and Reason (check one)</b>	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. <b>(Needs no motion.)</b>	<b>GO TO "Persuasive" subsection</b>	
<b>Persuasive</b>	<b>Motion and Reason (check one)</b>	<input type="checkbox"/>	Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>		
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b>		
		Reason	Editorial in nature.		
	<b>Motion by/ 2<sup>nd</sup> by</b>	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC			
	<b>Discussion</b>	None			
	<b>Result of Vote (check one)</b>	<input type="checkbox"/>	18 Y 0 N; Motion passed.		
<input checked="" type="checkbox"/>		2/3 ≤ [Negative is related and not persuasive.] < 90%	<b>GO TO "Final" subsection → (C)</b>		
<input type="checkbox"/>		90% ≤ [Negative is related and not persuasive.]	<b>GO TO "Not Significant Finding Option" subsection</b>		
<b>Final</b>	<b>(check if applicable)</b>	<input type="checkbox"/>	<b>(A)</b>	Withdrawn <b>(counted under h in disposition)</b>	
		<input type="checkbox"/>	<b>(B)</b>	Not related <b>(counted under i in disposition)</b>	
		<input checked="" type="checkbox"/>	<b>(C)</b>	Related and not persuasive (significant)	
		<input type="checkbox"/>	<b>(D)</b>	Not significant <b>(counted under j in disposition)</b>	
		<input type="checkbox"/>	<b>(E)</b>	Related and persuasive and not addressed by technical change	<b>DOCUMENT FAILS</b>
		<input type="checkbox"/>	<b>(F)</b>	Addressed by technical change <b>(counted under k disposition)</b>	
	<b>(check if applicable)</b>	<input checked="" type="checkbox"/>	Comment generated. <b>See Section V-(ii) Comment # NC-10.</b>		

### Negative 22

<b>Negative</b>	<b>Referenced Section/ Paragraph</b>	7.2.1		
	<b>Negative Text</b>	<i>Negative:</i> Change "instrument (metrology being evaluated for particle precursor measurement) for" to "instrument ( <del>metrology</del> being evaluated for particle precursor measurement) for". <i>Reason/Justification:</i> An instrument is not a "metrology".		
	<b>Withdrawal (check one)</b>	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	<b>GO TO "Related" subsection</b>
<b>Related</b>	<b>Motion and Reason (check one)</b>	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. <b>(Needs no motion.)</b>	<b>GO TO "Persuasive" subsection</b>
<b>Persuasive</b>	<b>Motion and Reason (check one)</b>	<input type="checkbox"/>	Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>	
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b>	

		Reason	Editorial in nature.	
	<b>Motion by/ 2<sup>nd</sup> by</b>	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC		
	<b>Discussion</b>	None		
	<b>Result of Vote (check one)</b>	18 Y 0 N; Motion passed.		
		X 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	
Final	<b>(check if applicable)</b>	(A)	Withdrawn (counted under h in disposition)	
		(B)	Not related (counted under i in disposition)	
		X (C)	Related and not persuasive (significant)	
		(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)	
<b>(check if applicable)</b>	X	Comment generated. See Section V-(ii) Comment # NC-11.		

### Negative 23

Negative	<b>Referenced Section/ Paragraph</b>	7.2.2	
	<b>Negative Text</b>	<i>Negative:</i> Change "must" to "should". <i>Reason/Justification:</i> "Must" means is caused to be by some external agent. For example, a rock released in a gravitational field "must" fall. As this is a Guide, the appropriate auxiliary verb is "should".	
	<b>Withdrawal (check one)</b>	X No Negative withdrawal made by Voter.	GO TO "Related" subsection
Related	<b>Motion and Reason (check one)</b>	X 'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
Persuasive	<b>Motion and Reason (check one)</b>	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	The ballot is correct, and "should" already appears here.
	<b>Motion by/ 2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC	
	<b>Discussion</b>	None	
	<b>Result of Vote (check one)</b>	18 Y 0 N; Motion passed.	
		X 2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)
Final	<b>(check if applicable)</b>	(A)	Withdrawn (counted under h in disposition)
		(B)	Not related (counted under i in disposition)

		X	(C)	Related and not persuasive (significant)	
			(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)	

### Negative 24

Negative	Referenced Section/ Paragraph	7.2.3.1				
	Negative Text	<i>Negative:</i> Subscript the "i" and the "Avg" in the variable name definitions. <i>Reason/Justification:</i> Make the definitions correspond with the variables in the equation.				
Related	Withdrawal (check one)	X	No Negative withdrawal made by Voter.		GO TO "Related" subsection	
	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)		GO TO "Persuasive" subsection	
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	No change needed – the ballot already shows it as subscripted.		
	Motion by/ 2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC				
	Discussion	None				
	Result of Vote (check one)	18 Y 0 N; Motion passed.				
Final	(check if applicable)		(A)	Withdrawn (counted under h in disposition)		
			(B)	Not related (counted under i in disposition)		
		X	(C)	Related and not persuasive (significant)		
			(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)		
			X	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)	

### Negative 25

Negative	Referenced Section/ Paragraph	7.2.3			
	Negative Text	<i>Negative:</i> Make the italic paragraph heading consistent with the paragraph. <i>Reason/Justification:</i> The italic paragraph heading is "sensitivity", but the paragraph provides a criterion for "noise" I note that the draft I saw of this ballot discussed "LOD", but that does not appear to be in the ballot.			

<b>Withdrawal (check one)</b>		<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	<b>GO TO "Related" subsection</b>	
<b>Related</b>	<b>Motion and Reason (check one)</b>	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. <b>(Needs no motion.)</b>	<b>GO TO "Persuasive" subsection</b>	
<b>Persuasive</b>	<b>Motion and Reason (check one)</b>	<input type="checkbox"/>	Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>		
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b>		
		Reason	Sensitivity of the instrument is the characteristic being evaluated here, with the criteria of signal to noise, as measured by RMS noise, so this remains a valid title.		
	<b>Motion by/ 2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC			
	<b>Discussion</b>	None			
<b>Result of Vote (check one)</b>	18 Y 0 N; Motion passed.				
	<input checked="" type="checkbox"/>	$2/3 \leq$ [Negative is related and not persuasive.] $< 90\%$	<b>GO TO "Final" subsection → (C)</b>		
<b>Final</b>	<b>(check if applicable)</b>	<input type="checkbox"/>	<b>(A)</b>	Withdrawn <b>(counted under h in disposition)</b>	
		<input type="checkbox"/>	<b>(B)</b>	Not related <b>(counted under i in disposition)</b>	
		<input checked="" type="checkbox"/>	<b>(C)</b>	Related and not persuasive (significant)	
		<input type="checkbox"/>	<b>(D)</b>	Not significant <b>(counted under j in disposition)</b>	
		<input type="checkbox"/>	<b>(E)</b>	Related and persuasive and not addressed by technical change	<b>DOCUMENT FAILS</b>
		<input type="checkbox"/>	<b>(F)</b>	Addressed by technical change <b>(counted under k disposition)</b>	

### Negative 26

<b>Negative</b>	<b>Referenced Section/ Paragraph</b>	7.2.3.3		
	<b>Negative Text</b>	Negative: Change "versus" to "divided by" in two places. Reason/Justification: The quantities are not in opposition to one another, they are to be divided.		
<b>Withdrawal (check one)</b>		<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	<b>GO TO "Related" subsection</b>
<b>Related</b>	<b>Motion and Reason (check one)</b>	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. <b>(Needs no motion.)</b>	<b>GO TO "Persuasive" subsection</b>
<b>Persuasive</b>	<b>Motion and Reason (check one)</b>	<input type="checkbox"/>	Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>	
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b>	
		Reason	Editorial in nature.	
	<b>Motion by/ 2<sup>nd</sup> by</b>	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC		
<b>Discussion</b>	None			

	Result of Vote (check one)	18 Y 0 N; Motion passed.	
		X	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
Final	(check if applicable)		(A) Withdrawn (counted under h in disposition)
			(B) Not related (counted under i in disposition)
		X	(C) Related and not persuasive (significant)
			(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)	X	Comment generated. See Section V-(ii) Comment # NC-12.	

### Negative 27

Negative	Referenced Section/ Paragraph	7.2.3.3	
	Negative Text	Negative: Change "concentration/unit volume" to "concentration" or "quantity/unit volume". Reason/Justification: "Concentration/unit volume" would, for example, have the dimensions of "(grams/liter)/liter".	
	Withdrawal (check one)	X	No Negative withdrawal made by Voter. GO TO "Related" subsection
Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive" subsection
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	Editorial in nature.
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC	
	Discussion	None	
	Result of Vote (check one)	18 Y 0 N; Motion passed.	
		X	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
Final	(check if applicable)		(A) Withdrawn (counted under h in disposition)
			(B) Not related (counted under i in disposition)
		X	(C) Related and not persuasive (significant)
			(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)



	<i>(check if applicable)</i>	<b>X</b>	Comment generated. <b>See Section V-(ii) Comment # NC-13.</b>
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### Negative 28

<b>Negative</b>	Referenced Section/ Paragraph	7.2.4		
	Negative Text	Negative: Superscript the “2” in “R2” Reason/Justification: “R2” is a commonly used symbol in statistics. “R2” is the first half of a robot’s name in a series of tin-foil westerns.		
	<b>Withdrawal (check one)</b>	<b>X</b>	No Negative withdrawal made by Voter. <b>GO TO “Related” subsection</b>	
<b>Related</b>	<b>Motion and Reason (check one)</b>	<b>X</b>	‘Related’ is mutually agreed upon. <b>(Needs no motion.)</b> <b>GO TO “Persuasive” subsection</b>	
<b>Persuasive</b>	<b>Motion and Reason (check one)</b>	<input type="checkbox"/>	Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>	
		<b>X</b>	Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b>	
		Reason	Editorial in nature.	
	<b>Motion by/ 2<sup>nd</sup> by</b>	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC		
	<b>Discussion</b>	None		
	<b>Result of Vote (check one)</b>	<b>X</b>	$2/3 \leq$ [Negative is related and not persuasive.] $< 90\%$	<b>GO TO “Final” subsection → (C)</b>
<input type="checkbox"/>		$90\% \leq$ [Negative is related and not persuasive.]	<b>GO TO “Not Significant Finding Option” subsection</b>	
<b>Final</b>	<b>(check if applicable)</b>	<input type="checkbox"/>	<b>(A)</b> Withdrawn <b>(counted under h in disposition)</b>	
		<input type="checkbox"/>	<b>(B)</b> Not related <b>(counted under i in disposition)</b>	
		<b>X</b>	<b>(C)</b> Related and not persuasive (significant)	
		<input type="checkbox"/>	<b>(D)</b> Not significant <b>(counted under j in disposition)</b>	
		<input type="checkbox"/>	<b>(E)</b> Related and persuasive and not addressed by technical change	<b>DOCUMENT FAILS</b>
		<input type="checkbox"/>	<b>(F)</b> Addressed by technical change <b>(counted under k disposition)</b>	
	<b>(check if applicable)</b>	<b>X</b>	Comment generated. <b>See Section V-(ii) Comment # NC-14.</b>	

### Negative 29

<b>Negative</b>	Referenced Section/ Paragraph	Table 1 header	
	Negative Text	Negative: Change “Requirement” to “Value” Reason/Justification: As this is a Guide, it has no “requirements”.	
	<b>Withdrawal (check one)</b>	<b>X</b>	No Negative withdrawal made by Voter. <b>GO TO “Related” subsection</b>

Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.)			GO TO "Persuasive" subsection
	Motion and Reason (check one)	X	Negative is related and persuasive. (Needs >1/3 votes to pass.)			
Persuasive	Motion by/ 2 <sup>nd</sup> by	By: Darren Conner / Evantic Second: Bonnie Marion / FTD Solutions LLC				
	Discussion	None				
	Result of Vote (check one)	16 Y 0 N; Motion passed.				
		X	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	X	Y
		[Negative is related and not persuasive.] < 2/3		N	GO TO "Final" subsection → (E)	
Address by Technical Change Option	<b>Technical Change Recommendations</b> Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.					
	FROM: Section/Paragraph Table 1					
	Technical Changes			Criteria Evaluated Using:		
		Performance Criteria (Units)	Requirement	Step 1 (Traceable Size Reference Material – Silver Nanoparticle)	Step 2 (Dissolved Standard – Ultrafiltered KCl)	Step 3 (Real-World Validation – MB D Resin Extract)
		Particle size accuracy to certified value (nm)	Average size between 5.3-9.3 nm	X		
		Particle size repeatability (RSD)	<15	X	X	X
		Particle concentration repeatability (RSD)	<15		X	X
		Concentration effect on particle sizing (1/3X and 3X concentration)	Within ±5% of the average value for sizing accuracy	X		
		Concentration accuracy (%)	±10		X	
		Sensitivity: 10 × Noise/Background (%)	<30		X	
Dynamic Range: for log measured values vs. log expected values, three concentrations between 10X-100X background level	>0.95		X			

**TO: Section/Paragraph Table 1**

Table 1 Particle Precursor Measurement Performance Criteria Summary

Performance Criteria (Units)	Requirement/Value	Criteria Evaluated Using:		
		Step 1 (Traceable Size Reference Material – Silver Nanoparticle)	Step 2 (Dissolved Standard – Ultrafiltered KCl)	Step 3 (Real-World Validation – MB IX Resin Extract)
Particle size accuracy to certified value (nm)	Average size between 5.3-9.3 nm	X		
Particle size repeatability (% RSD)	<15	X	X	X
Particle concentration repeatability (% RSD)	<15		X	X
Concentration effect on particle sizing (1/3X and 3X concentration)	Within ±5% of the average value for sizing accuracy	X		
Concentration accuracy (%)	±10		X	
Sensitivity: 100 × Noise/Background (%)	<30		X	
Dynamic Range: R <sup>2</sup> for log measured values vs. log expected values, three concentrations between 10X-100X background level	>0.95		X	

**Justification (if necessary)**  
Requirements are not allowed in a Guide

<b>Motion</b>		Negative is addressed by the technical change(s).		
<b>Motion by/2<sup>nd</sup> by</b>		By: Bob McIntosh / GF Piping Systems Second: Darren Conner / Evantic		
<b>Discussion</b>		None		
<b>Result of Vote (check one)</b>		15 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)		
<b>Incorporation of the Technical Change</b>	<b>Motion</b>		To incorporate the technical change(s).	
	<b>Motion by/2<sup>nd</sup> by</b>		By: Darren Conner / Evantic Second: Alan Knapp / Evoqua Water Technologies LLC	
	<b>Discussion</b>		None	
	<b>Result of Vote (check one)</b>		15 Y 0 N; Motion passed.	
X	90% ≤ [Agree to incorporate.]	GO TO “Final” subsection → (F)		
	[Disagree to incorporate.] > 10%	GO TO “Final” subsection → (E)		
<b>Final</b>		(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	DOCUMENT FAILS
	X	(F)	Addressed by technical change (counted under k disposition)	

**Negative 30**

Negative	Referenced Section/ Paragraph	8.1.1			
	Negative Text	Negative: Change “meet the quality as defined in” to “meet the criteria of”. Reason/Justification: “Meet the quality” is not a meaningful phrase.			
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO “Related” subsection	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	‘Related’ is mutually agreed upon. (Needs no motion.)	GO TO “Persuasive” subsection	
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	Editorial in nature.		
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC			
	Discussion	None			
	Result of Vote (check one)	18 Y 0 N; Motion passed.			
<input checked="" 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)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)	
	(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-15.		

**Negative 31**

Negative	Referenced Section/ Paragraph	8.1.2		
	Negative Text	Negative: Insert the missing Oxford comma between “KCI” and “and”. Reason/Justification: SEMI’s Style Manual requires such a comma.		
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO “Related” subsection
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	‘Related’ is mutually agreed upon. (Needs no motion.)	GO TO “Persuasive” subsection

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	Oxford comma already appears correctly in the ballot.		
	Motion by/ 2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC			
	Discussion	None			
	Result of Vote (check one)	18 Y 0 N; Motion passed.			
<input checked="" type="checkbox"/>		2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)		
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)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)	

### Negative 32

Negative	Referenced Section/ Paragraph	8.1.2		
	Negative Text	Negative: State to what HDPE is preferred and why. Reason/Justification: Is there some technical reason for preferring HDPE to, for example, PFA for these? If the reason is cost, but PFA provides equivalent performance, that should be stated so that the user has the choice of saving a bit on the containers or having the convenience and reduced error risk of having containers of only one material.		
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
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	Editorial in nature.	
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC		
	Discussion	None		
	Result of Vote (check one)	18 Y 0 N; Motion passed.		
<input checked="" type="checkbox"/>		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	
Final	(check if applicable)		(A)	Withdrawn (counted under h in disposition)	
			(B)	Not related (counted under i in disposition)	
		X	(C)	Related and not persuasive (significant)	
			(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)	X	Comment generated. See Section V-(ii) Comment # NC-16.		

### Negative 33

Negative	Referenced Section/ Paragraph	8.1.3.1		
	Negative Text	<p><i>Negative:</i> Clarify the meaning of the sentence fragment after the colon.  <i>Reason/Justification:</i> For example, is this intended to be:</p> <ul style="list-style-type: none"> <li>an observation about such materials.</li> <li>a requirement that one do something to ensure such stability, or a criterion for selecting which dilution to use?</li> </ul>		
	Withdrawal (check one)	X	No Negative withdrawal made by Voter.	GO TO “Related” subsection
Related	Motion and Reason (check one)	X	‘Related’ is mutually agreed upon. (Needs no motion.)	GO TO “Persuasive” subsection
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	This is clarified in 8.1.3 title (Based on Preliminary Testing Observations).	
	Motion by/ 2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC		
	Discussion	None		
Final	(check if applicable)		(A)	Withdrawn (counted under h in disposition)
			(B)	Not related (counted under i in disposition)
X		(C)	Related and not persuasive (significant)	
		(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)	
	Result of Vote (check one)	X	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO “Final” subsection → (C)

### Negative 34

Negative	Referenced Section/ Paragraph	8.1.3.2			
	Negative Text	<p>Negative: Clarify the meaning of the sentence fragment after the colon. Reason/Justification: For example, is this intended to be:</p> <ul style="list-style-type: none"> <li>an observation about such materials.</li> <li>a requirement that one do something to ensure such stability, or a criterion for selecting which dilution to use?</li> </ul>			
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection	
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	This is clarified in 8.1.3 title (Based on Preliminary Testing Observations).		
	Motion by/ 2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC			
	Discussion	None			
	Result of Vote (check one)	18 Y 0 N; Motion passed.			
	<input checked="" type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)		
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)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)	

### Negative 35

Negative	Referenced Section/ Paragraph	8.3.1.2		
	Negative Text	<p>Negative: Delete "actual". Reason/Justification: What is to be recorded is a calculated concentration. How closely it matches what is actually there depends on the accuracy of the mass measurements.</p>		
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection

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.)			
		<input type="checkbox"/>	Reason	Editorial in nature.		
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC				
	Discussion	None				
	Result of Vote (check one)	18 Y 0 N; Motion passed.				
<input checked="" 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)		
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS	
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)		
	(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-17.			

### Negative 36

Negative	Referenced Section/ Paragraph	8.3.1.6			
	Negative Text	Negative: Clarity or reword "expected concentration". Reason/Justification: Is the "expected concentration" here the "actual concentration" in ¶9.3.1.2? If so, state that. If not, describe how to determine what is "expected".			
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.		GO TO "Related" subsection
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)		GO TO "Persuasive" subsection
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.)		
		<input type="checkbox"/>	Reason	Editorial in nature.	
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC			
	Discussion	None			
		18 Y 0 N; Motion passed.			



	Result of Vote (check one)	<input checked="" 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)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)	
	(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-18.		

### Negative 37

Negative	Referenced Section/ Paragraph	8.3.1.7			
	Negative Text	Negative: Change “by dilute to” to “by diluting to” Reason/Justification: Correct grammar.			
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO “Related” subsection	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	‘Related’ is mutually agreed upon. (Needs no motion.)	GO TO “Persuasive” subsection	
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	Editorial in nature.	
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC			
	Discussion	None			
	Result of Vote (check one)	<input checked="" 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)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)	
	(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-19.		

**Negative 38**

Negative	Referenced Section/ Paragraph	8.3.1.7		
	Negative Text	Negative: Clarity or reword "gravimetric concentration". Reason/Justification: Is the "gravimetric concentration" here the "actual concentration" in ¶9.3.1.2? If so, state that. If not, describe how to determine the "gravimetric concentration".		
	Withdrawal (check one)	<input checked="" type="checkbox"/> No Negative withdrawal made by Voter.	GO TO "Related" subsection	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/> 'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection	
Persuasive	Motion and Reason (check one)	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	Editorial in nature.	
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC		
	Discussion	None		
	Result of Vote (check one)	18 Y 0 N; Motion passed.		
<input checked="" 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)	
		<input type="checkbox"/> (E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/> (F)	Addressed by technical change (counted under k disposition)	
	(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-20.	

**Negative 39**

Negative	Referenced Section/ Paragraph	8.3.1.9	
	Negative Text	Negative: Clarify to what "typical... range" this refers. Reason/Justification: This sentence states that the "typical range" is three to eight orders of magnitude lower than the concentration to which ¶8.3.1.7 directs dilution. ¶8.3.1.8 suggests that "multiple concentrations should be run", but there's no instruction to dilute the "stock solution" prepared in ¶8.3.1.7.	
	Withdrawal (check one)	<input checked="" type="checkbox"/> No Negative withdrawal made by Voter.	GO TO "Related" subsection

Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	‘Related’ is mutually agreed upon. (Needs no motion.)		GO TO “Persuasive” subsection
	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	Editorial in nature.	
Motion by/ 2 <sup>nd</sup> by		By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC			
Discussion		None			
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)	
(check if applicable)	<input checked="" type="checkbox"/>		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	
	(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-21.		

### Negative 40

Negative	Referenced Section/ Paragraph	9			
	Negative Text	<p>Negative: Provide a Reporting section that directs that the findings be reported.  Reason/Justification: I see no instructions to record and report these data, except for within ¶8.5. All I see is a permissive statement about the format of the reporting. It seems likely that the intent was to direct reporting, but to allow the reported a choice of format.</p>			
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.		GO TO “Related” subsection
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	‘Related’ is mutually agreed upon. (Needs no motion.)		GO TO “Persuasive” subsection
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	Directions to report findings is provided in ¶ 8.5.	
	Motion by/ 2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC			
	Discussion	None			
		18 Y 0 N; Motion passed.			

	Result of Vote (check one)	<input checked="" type="checkbox"/>	$2/3 \leq$ [Negative is related and not persuasive.] $< 90\%$	GO TO "Final" subsection → (C)	
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)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change	(counted under k disposition)

### Negative 41

Negative	Referenced Section/ Paragraph	9.1			
	Negative Text	<i>Negative:</i> Remove the superscript "4". <i>Reason/Justification:</i> I don't find the footnote. Either provide a footnote that contains the URL of this form or remove the superscript "4" and provide the URL in this paragraph.			
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection	
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	The Footnote with URL is shown correctly in the ballot.		
	Motion by/ 2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC			
	Discussion	None			
	Result of Vote (check one)	18 Y 0 N; Motion passed.			
	Result of Vote (check one)	<input checked="" type="checkbox"/>	$2/3 \leq$ [Negative is related and not persuasive.] $< 90\%$	GO TO "Final" subsection → (C)	
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)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change	(counted under k disposition)

## Negative 42

Negative	Referenced Section/ Paragraph	9.1		
	Negative Text	<p><i>Negative:</i> Until and unless the statement is true, remove the claim that the form is available as Supplementary Material from the SEMI web site.  <i>Reason/Justification:</i> The file is not, as of 1722 EST on 15feb23, available from <a href="http://dom.semi.org/web/wstandards.nsf/supvm">http://dom.semi.org/web/wstandards.nsf/supvm</a>  or  <a href="http://dom.semi.org/web/wstandards.nsf/complementaryfiles">http://dom.semi.org/web/wstandards.nsf/complementaryfiles</a>  nor was it provided as part of the ballot for review.  The TC is permitted, by §14.3 of the <i>SEMI Standards Regulations</i>, to approve publication on SEMI's web site by having the file accompany the draft document through the voting process or by a 2/3 vote in an official TCC meeting, followed by approval by the TC's GCS and the ISC A&amp;R SC.</p>		
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter. <b>GO TO "Related" subsection</b>	
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. <b>(Needs no motion.)</b> <b>GO TO "Persuasive" subsection</b>	
Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>	
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b>	
	Reason	Supplementary file was included but not posted on the web site along with the ballot due to an oversight by SEMI. When the document is published, the supplementary will be published on the web.		
	Motion by/ 2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC		
	Discussion	None		
	Result of Vote (check one)	<input checked="" type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	<b>GO TO "Final" subsection → (C)</b>
Final	(check if applicable)	<input type="checkbox"/>	<b>(A)</b> Withdrawn <b>(counted under h in disposition)</b>	
		<input type="checkbox"/>	<b>(B)</b> Not related <b>(counted under i in disposition)</b>	
		<input checked="" type="checkbox"/>	<b>(C)</b> Related and not persuasive (significant)	
		<input type="checkbox"/>	<b>(D)</b> Not significant <b>(counted under j in disposition)</b>	
		<input type="checkbox"/>	Related and persuasive and not addressed by technical change	<b>DOCUMENT FAILS</b>
		<input type="checkbox"/>	<b>(F)</b> Addressed by technical change <b>(counted under k disposition)</b>	

## Negative 43

Neg ativ	Referenced Section/ Paragraph	A1-1.1
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	<b>Negative Text</b>	Negative: Replace “our knowledge” with “the knowledge of the task force that developed this Guide” Reason/Justification: “Our” is too informal and begs the question of to whom the pronoun refers.	
	<b>Withdrawal (check one)</b>	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter. <b>GO TO “Related” subsection</b>
<b>Related</b>	<b>Motion and Reason (check one)</b>	<input checked="" type="checkbox"/>	‘Related’ is mutually agreed upon. <b>(Needs no motion.)</b> <b>GO TO “Persuasive” subsection</b>
<b>Persuasive</b>	<b>Motion and Reason (check one)</b>	<input type="checkbox"/>	Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b>
		Reason	Editorial in nature.
	<b>Motion by/ 2<sup>nd</sup> by</b>	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC	
	<b>Discussion</b>	None	
	<b>Result of Vote (check one)</b>	18 Y 0 N; Motion passed.	
<input checked="" type="checkbox"/>		2/3 ≤ [Negative is related and not persuasive.] < 90%	<b>GO TO “Final” subsection → (C)</b>
<input type="checkbox"/>		90% ≤ [Negative is related and not persuasive.]	<b>GO TO “Not Significant Finding Option” subsection</b>
<b>Final</b>	<b>(check if applicable)</b>	<input type="checkbox"/>	<b>(A)</b> Withdrawn <b>(counted under h in disposition)</b>
		<input type="checkbox"/>	<b>(B)</b> Not related <b>(counted under i in disposition)</b>
		<input checked="" type="checkbox"/>	<b>(C)</b> Related and not persuasive (significant)
		<input type="checkbox"/>	<b>(D)</b> Not significant <b>(counted under j in disposition)</b>
		<input type="checkbox"/>	Related and persuasive and not addressed by technical change <b>DOCUMENT FAILS</b>
		<input type="checkbox"/>	<b>(F)</b> Addressed by technical change <b>(counted under k disposition)</b>
	<b>(check if applicable)</b>	<input checked="" type="checkbox"/>	Comment generated. <b>See Section V-(ii) Comment # NC-22.</b>

### Negative 44

<b>Negative</b>	<b>Referenced Section/ Paragraph</b>	A1-1.1	
	<b>Negative Text</b>	Negative: Correct the cross-reference. Reason/Justification: The only criterion in ¶6.1.1 is that the material be “traceable”. If you meant to refer to ¶6.1.1 and its subordinate paragraphs, then refer to “§6.1.1”. Alternatively, make the items subordinate to ¶6.1.1 a bulleted list, rather than numbering them as if they were paragraphs, so that “¶6.1.1” refers to the items in that list.	
	<b>Withdrawal (check one)</b>	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter. <b>GO TO “Related” subsection</b>
<b>Related</b>	<b>Motion and Reason (check one)</b>	<input checked="" type="checkbox"/>	‘Related’ is mutually agreed upon. <b>(Needs no motion.)</b> <b>GO TO “Persuasive” subsection</b>

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	Editorial in nature.			
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC				
	Discussion	None				
	Result of Vote (check one)	18 Y 0 N; Motion passed.				
<input checked="" 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)		
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS	
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)		
	(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-23.			

### Negative 45

Negative	Referenced Section/ Paragraph	A1-1.2		
	Negative Text	Negative: Use and abbreviation that is based on the term being abbreviated. Reason/Justification: There is no "N" between the "L" and the "S" in "Liquid Particle Sizing". More generally, these two abbreviations are missing from §5.1 It might also be helpful to provide a sentence or two explaining what each of these techniques is.		
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
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	Editorial in nature.	
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC		
Discussion	None			

	<b>Result of Vote (check one)</b>	18 Y 0 N; Motion passed.		
	<input checked="" 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	
<b>Final</b>	<b>(check if applicable)</b>	<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)	
		<input type="checkbox"/>	(E) Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F) Addressed by technical change (counted under k disposition)	
<b>(check if applicable)</b>	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-24.		

### Negative 46

<b>Negative</b>	<b>Referenced Section/ Paragraph</b>	Figure A1-4	
	<b>Negative Text</b>	Negative: Correct the arithmetic. Reason/Justification: The calculations in this table appear a bit off. "DMA" is 28.4 and "SAXS" is 24.9, but "DMA – SAXS" is stated as "-3.5", which is the opposite of what I get when I subtract 24.9 from 28.4.	
	<b>Withdrawal (check one)</b>	<input checked="" type="checkbox"/> No Negative withdrawal made by Voter.	GO TO "Related" subsection
<b>Related</b>	<b>Motion and Reason (check one)</b>	<input checked="" type="checkbox"/> 'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
<b>Persuasive</b>	<b>Motion and Reason (check one)</b>	<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	Editorial in nature.
	<b>Motion by/ 2<sup>nd</sup> by</b>	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC	
	<b>Discussion</b>	None	
	<b>Result of Vote (check one)</b>	18 Y 0 N; Motion passed.	
	<input checked="" 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
<b>Final</b>	<b>(check if applicable)</b>	<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)
		<input type="checkbox"/>	(E) Related and persuasive and not addressed by technical change



		(F)	Addressed by technical change (counted under k disposition)
(check if applicable)	X	Comment generated. See Section V-(ii) Comment # NC-25.	

### Negative 47

Negative	Referenced Section/ Paragraph	A2-2.9		
	Negative Text	Negative: Change "amount" to "number". Reason/Justification: If the desired degree of diafiltration is determined in the number of cycles, then this should be "number of diafiltration cycles", as cycles are countable. If the desired degree is determined by the volume of permeate, then this should be "volume of diafiltration", as volume is measurable, but not countable.		
	Withdrawal (check one)	X	No Negative withdrawal made by Voter. <b>GO TO "Related" subsection</b>	
Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.) <b>GO TO "Persuasive" subsection</b>	
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	Editorial in nature.	
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC		
	Discussion	None		
	Result of Vote (check one)	X	$2/3 \leq [\text{Negative is related and not persuasive.}] < 90\%$	<b>GO TO "Final" subsection → (C)</b>
		$90\% \leq [\text{Negative is related and not persuasive.}]$	<b>GO TO "Not Significant Finding Option" subsection</b>	
Final	(check if applicable)		(A) Withdrawn (counted under h in disposition)	
			(B) Not related (counted under i in disposition)	
		X	(C) Related and not persuasive (significant)	
			(D) Not significant (counted under j in disposition)	
			(E) Related and persuasive and not addressed by technical change	<b>DOCUMENT FAILS</b>
			(F) Addressed by technical change (counted under k disposition)	
(check if applicable)	X	Comment generated. See Section V-(ii) Comment # NC-26.		

### Negative 48

Neg ativ	Referenced Section/ Paragraph	A3-2.2
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	<b>Negative Text</b>	<i>Negative:</i> Delete this paragraph. <i>Reason/Justification:</i> There's no apparent reason to make an assumption about the density of the particle, as the density is included in the calculation. 1.11 g/mL is the value used in the example, but there's no reason for the assumption to be made generally, and the value chosen is far from the density of silver or gold.		
	<b>Withdrawal (check one)</b>	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter. <b>GO TO "Related" subsection</b>	
<b>Related</b>	<b>Motion and Reason (check one)</b>	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. <b>(Needs no motion.)</b> <b>GO TO "Persuasive" subsection</b>	
<b>Persuasive</b>	<b>Motion and Reason (check one)</b>	<input type="checkbox"/>	Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>	
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b>	
		Reason	We disagree, this is an assumption that was made in the example calculation.	
	<b>Motion by/ 2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC		
	<b>Discussion</b>	None		
<b>Result of Vote (check one)</b>	18 Y 0 N; Motion passed.			
	<input checked="" type="checkbox"/>	$2/3 \leq [\text{Negative is related and not persuasive.}] < 90\%$	<b>GO TO "Final" subsection → (C)</b>	
<b>Final</b>	<b>(check if applicable)</b>	<input type="checkbox"/>	<b>(A)</b> Withdrawn <b>(counted under h in disposition)</b>	
		<input type="checkbox"/>	<b>(B)</b> Not related <b>(counted under i in disposition)</b>	
		<input checked="" type="checkbox"/>	<b>(C)</b> Related and not persuasive (significant)	
		<input type="checkbox"/>	<b>(D)</b> Not significant <b>(counted under j in disposition)</b>	
		<input type="checkbox"/>	<b>(E)</b> Related and persuasive and not addressed by technical change	<b>DOCUMENT FAILS</b>
		<input type="checkbox"/>	<b>(F)</b> Addressed by technical change <b>(counted under k disposition)</b>	

### Negative 49

<b>Negative</b>	<b>Referenced Section/ Paragraph</b>	Figure R1-1	
	<b>Negative Text</b>	<i>Negative:</i> Provide larger, clear type in the Figure. <i>Reason/Justification:</i> The type in this figure is too small. Enlarging the image results in type that's large enough to read, but too blurry.	
	<b>Withdrawal (check one)</b>	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter. <b>GO TO "Related" subsection</b>
<b>Related</b>	<b>Motion and Reason (check one)</b>	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. <b>(Needs no motion.)</b> <b>GO TO "Persuasive" subsection</b>
<b>Persuasive</b>	<b>Motion and Reason (check one)</b>	<input type="checkbox"/>	Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b>

		Reason	Editorial in nature.	
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC		
	Discussion	None		
	Result of Vote (check one)	18 Y 0 N; Motion passed.		
		X 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	
Final	(check if applicable)	(A)	Withdrawn (counted under h in disposition)	
		(B)	Not related (counted under i in disposition)	
		X (C)	Related and not persuasive (significant)	
		(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)	X	Comment generated. See Section V-(ii) Comment # NC-27.		

### Negative 50

Negative	Referenced Section/ Paragraph	Figure R1-2	
	Negative Text	Negative: Provide larger, clear type in the Figure. Reason/Justification: The type in this figure is too small. Enlarging the image results in type that's large enough to read, but too blurry.	
	Withdrawal (check one)	X	No Negative withdrawal made by Voter. GO TO "Related" subsection
Related	Motion and Reason (check one)	X	'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive" subsection
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	Editorial in nature.
	Motion by/ 2 <sup>nd</sup> by	By: Bob McIntosh / GF Piping Systems Second: Bonnie Marion / FTD Solutions LLC	
	Discussion	None	
	Result of Vote (check one)	18 Y 0 N; Motion passed.	
X 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	
	(A)	Withdrawn (counted under h in disposition)	

(check if applicable)	<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)	
	<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
	<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)	
(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-28.		

### Negative 51

Negative	Referenced Section/ Paragraph	Figure R1-3			
	Negative Text	<p>Negative: Clarify the Figure  Reason/Justification: This graph is hard to read because the symbols for the data points are hard to distinguish by shape at the size provided and many of the curves overlap. As the apparent purpose of including this graph is to convey a concept of particle count as a function of KCl concentration, I suggest providing a simplified graph with the blank and KCl concentrations of 1ppt, 100 ppt, 1ppb, and 100 ppb.</p>			
	Withdrawal (check one)	<input checked="" type="checkbox"/> No Negative withdrawal made by Voter.	GO TO "Related" subsection		
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/> 'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection		
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	improve the readability of the image			
	Motion by/ 2 <sup>nd</sup> by	By: Darren Conner / Evantic Second: Andrea Tiwari / TSI Incorporated			
	Discussion	None			
	Result of Vote (check one)	15 Y 0 N; Motion passed.			
<input checked="" type="checkbox"/> $2/3 \leq$ [Negative is related and not persuasive.] < 90%		GO TO "Final" subsection → (C)			
<input type="checkbox"/> $90\% \leq$ [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)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)	
	(check if applicable)	<input checked="" type="checkbox"/>	Comment generated. See Section V-(ii) Comment # NC-29.		

## Disposition of Voting Interest Reject 1

Check only when the Document has not been failed.

51	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)	
4	Number of Negatives addressed by technical change <b>(Negative becomes not significant)</b>	(k)	
Final	<input type="checkbox"/>	$g - (h + i + j + k) = 0$	Reject is Not Valid and is not included in the denominator of § VI. <b>Approval Conditions Check</b>
	<input checked="" type="checkbox"/>	$g - (h + i + j + k) > 0$	Reject is included in the denominator of § VI. <b>Approval Conditions Check</b>
	<input type="checkbox"/>	Reject without a Negative	Not Valid

This table is needed for each Voting Interest Reject.

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 ¶ 9.6.1.4.5.2)

## Voting Interest Reject 2 (Voting Interest Name: Organo)

### Voter Reject 1 (Voter: Hiroshi Sugawara / Organo)

#### Negative 1

Negative	Referenced Section/ Paragraph	Title, § 1-3, ¶ 5.2.1, § 6.1, § 7.1, ¶ 7.2, 7.2.1, 7.3, 7.3.1, 8.2, 8.4, 8.4.1	
	Negative Text	<p>This document is "A GUIDE FOR EVALUATING METROLOGY FOR PARTICLE PRECURSORS". Particle precursors are defined as dissolved molecular compounds, which are different or cannot be distinguished from particles.</p> <p>The description about Step1 that is for Instrument Particle Sizing Validation is concerned. Because particle precursors are not particles before drying.</p>	
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. <b>(Needs no motion.)</b>	GO TO "Persuasive" subsection
Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b>
		<input checked="" type="checkbox"/>	Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b>
	Reason	The drying step is specified in ¶ 2.4 as a key assumption for the metrology and ¶ 3.4 acknowledges the limitation that this is an indirect measurement.	

	<b>Motion by/ 2<sup>nd</sup> by</b>	By: Chuck Dale / SUEZ Second: vyacheslav Libman / FTD Solutions LLC				
	<b>Discussion</b>	None				
	<b>Result of Vote (check one)</b>	17 Y 0 N; Motion passed.				
		<input type="checkbox"/>	[Negative is related and persuasive.] > 1/3	<b>Is a technical change recommended? (check one)</b>	<input type="checkbox"/> Y GO TO "Address by Technical Change Option" subsection	
		<input type="checkbox"/>	[Negative is related and not persuasive.] < 2/3		<input type="checkbox"/> N GO TO "Final" subsection → (E)	
		<input checked="" 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		
<b>Final</b>	<b>(check if applicable)</b>	<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)		
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS	
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)		

## Negative 2

<b>Negative</b>	<b>Referenced Section/ Paragraph</b>	Title, § 1-3, ¶ 5.2.1, § 6.1, § 7.1, ¶ 7.2, 7.2.1, 7.3, 7.3.1, 8.2, 8.4, 8.4.1			
	<b>Negative Text</b>	The description for Step3 that is for Real-World Validation with Mixed Bed Ion Exchange Resin Extract is unclear and should not be written. Because every IX Extract is different and standardized samples are not available. The extracts for validation are not precisely prepared.			
	<b>Withdrawal (check one)</b>	<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)
<b>Related</b>	<b>Motion and Reason (check one)</b>	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)		GO TO "Persuasive" subsection
<b>Persuasive</b>	<b>Motion and Reason (check one)</b>	<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.)		
		<input type="checkbox"/>	Reason	The real world validation only looks at repeatability in particle formation using the same extract, so the concern of a standardized sample is not persuasive. Additionally, the extraction process itself is standardized per SEMI C93. In next revision, can change wording for Step 3 to "demonstration" instead of validation.	
	<b>Motion by/ 2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: Bonnie Marion / FTD Solutions LLC			
	<b>Discussion</b>	None			
		18 Y 0 N; Motion passed.			

	Result of Vote (check one)	<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 type="checkbox"/>	[Negative is related and not persuasive.] < 2/3		<input type="checkbox"/>	N	GO TO "Final" subsection → (E)	
		<input checked="" type="checkbox"/>	$2/3 \leq$ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)				
		<input type="checkbox"/>	$90\% \leq$ [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)				
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change			DOCUMENT FAILS	
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)				

### Disposition of Voting Interest Reject 2

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. Approval Conditions Check
	<input checked="" type="checkbox"/>	$g - (h + i + j + k) > 0$	Reject is included in the denominator of § VI. Approval Conditions Check
	<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 ¶ 9.6.1.4.5.2)

## IV. Other Technical Issues

### None

## V. Comments

### V- (i) Voters' Comments

#### Commenter 1 (Jurgen Lobert / Entegris) - Comment 1

Comment	I believe that either the title or the entire draft are misleading. Particle precursors - as explained in the document - are CHEMICALS, not particles (yet). However, most of the document talks about particle measurement and its accuracy. If I read the title, I expect to find a standard that talks about measuring chemicals that MIGHT become particles under certain circumstances. I suggest to either reword the title or rewrite the standard.
Action	<b>The TC Chapter agreed to do one of the following actions.</b>
	<b>*No motion is required in this step.</b>
	<input type="checkbox"/> Already addressed by Commenter #, Comment #
	<input type="checkbox"/> No further action was taken by the TC Chapter.
	<input checked="" type="checkbox"/> <i>Comments/Justification from the TF:</i> Not Technically Persuasive - The drying step is specified in ¶2.4 as a key assumption for the metrology and ¶3.4 acknowledges the limitation that this is an indirect measurement.
	<input type="checkbox"/> Refer to the TF for more consideration.
	<input type="checkbox"/> New Business
<input type="checkbox"/> Editorial Change	

#### Commenter 2 (Dave Shuey / Avery) - Comment 1

Comment	I have no background or experience to be able to weigh in on this standard.
Action	<b>The TC Chapter agreed to do one of the following actions.</b>
	<b>*No motion is required in this step.</b>
	<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

#### Comment (Created by Handling Negative) **NC – 1 (SG01)**

Comme	1.2 Negative: Relocate this paragraph or make it a NOTE that explains the preceding paragraph. Reason/Justification: This is not a statement of the purpose of this Guide.
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		<b>The TC Chapter agreed to do one of the following actions.</b>	
		<b>*No motion is required in this step.</b>	
<b>Action</b>		Already addressed by Commenter #, Comment #	
		No further action was taken by the TC Chapter.	
		Refer to the TF for more consideration.	
		New business	
	<b>X</b>	Editorial change	
		<b>Options for editorial change (check one)</b>	<b>Case 1: No vote in this section:</b>
			<b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>
		<b>X</b>	<b>Case 2: Voted in this section:</b>
			<b>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</b>
<b>Editorial Changes</b>	<b>1</b>	<b>FROM: Section/Paragraph 1.1 and 1.2</b>	
		<b>1 Purpose</b>	
		<p>1.1 This Guide provides a performance-based definition of metrology that can be used to measure particle precursors in ultrapure water (UPW). This Guide includes a testing methodology and criteria for qualifying measurement techniques for quantifying particle precursor concentrations in UPW.</p> <p>1.2 Particle precursors are defined as dissolved molecular compounds, which may form particles when dried on a wafer surface. This definition was developed by the UPW International Roadmap for Devices and Systems (IRDS). Particle precursors can originate from UPW system components, such as ion exchange resin.</p>	
		<b>TO: Section/Paragraph 1.1</b>	
		<b>1 Purpose</b>	
		<p>1.1 This Guide provides a performance-based definition of metrology that can be used to measure particle precursors in ultrapure water (UPW). This Guide includes a testing methodology and criteria for qualifying measurement techniques for quantifying particle precursor concentrations in UPW. –</p> <p><del>1.2</del> Particle precursors are defined as dissolved molecular compounds, which may form particles when dried on a wafer surface. This definition was developed by the UPW International Roadmap for Devices and Systems (IRDS). Particle precursors can originate from UPW system components, such as ion exchange resin.</p>	
		<b>Justification (If necessary)</b>	
		Combine 1.2 into 1.1. It does not need to be a separate section.	
<b>Motion</b>		To approve above editorial change(s)	
<b>Motion by/2<sup>nd</sup> by</b>		By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC	
<b>Discussion</b>		None	
<b>Vote</b>		17 Y 0 N; Motion passed.	

**Comment (Created by Handling Negative) NC – 2 (SG02)**

<b>Comment</b>	<p>1.2, 5.2.1, et al.                  Negative: Explain the intended meaning of “molecular” in these sentences or remove the word.                  Reason/Justification: A "molecular compound", IIRC, is one that forms discrete molecules, usually by covalent bonding, such as CH4. Contrarily, an "ionic compound" is one that has specific ratios among its atomic constituents, but not discrete molecules and the bonding is ionic. KCl, for example, is an ionic compound.                  Ironically, KCl is what is used in this Guide as the test case of a compound that forms particles when water in which it is dissolved dries, so the method is being validated for measurement of an ionic compound, not a molecular compound. If there's no difference between how one measures particles formed from ionic compounds and how one measures particles from molecular compounds, then just dropping the "molecular" throughout the Guide appears to be a simple solution. If there is a difference, then this Guide appears to fail to address its primary purpose.</p>		
	<p><b>The TC Chapter agreed to do one of the following actions.</b></p> <p><b>*No motion is required in this step.</b></p>		
<b>Action</b>	<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	
	<input type="checkbox"/>		
	Options for editorial change (check one)	<input type="checkbox"/>	<p><b>Case 1: No vote in this section:</b></p> <p><b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b></p>
		<input checked="" type="checkbox"/>	<p><b>Case 2: Voted in this section:</b></p> <p><b>Original section number and at least one full sentence are required in “FROM” and “TO” fields.</b></p>
	<b>Editorial Changes</b>	1	<p><b>FROM: Section/Paragraph 1.1 (was 1.2)</b></p> <p>Particle precursors are defined as dissolved molecular compounds, which may form particles when dried on a wafer surface. This definition was developed by the UPW International Roadmap for Devices and Systems (IRDS). Particle precursors can originate from UPW system components, such as ion exchange resin.</p>
			<p><b>TO: Section/Paragraph 1.1 (now 1.2)</b></p> <p>Particle precursors are defined as dissolved <del>molecular</del> compounds, which may form particles when dried on a wafer surface. This definition was developed by the UPW International Roadmap for Devices and Systems (IRDS). Particle precursors can originate from UPW system components, such as ion exchange resin.</p> <p><b>Justification (if necessary)</b>                  Remove the word molecular. (This does not change the definition, and having molecular in there potentially adds confusion). Also change definition in 5.2.1 to be consistent in terminology.</p>
<b>Editorial Changes</b>	2	<p><b>FROM: Section/Paragraph 5.2.1</b></p> <p>5.2.1 <i>particle precursor</i> — a dissolved molecular compound which may form particles when dried on a wafer surface.</p>	

	<p><b>TO: Section/Paragraph 5.2.1</b></p> <p>5.2.1 <i>particle precursor</i> — a dissolved <del>molecular</del> compound which may form particles when dried on a wafer surface.</p> <p><b>Justification (If necessary)</b> Editorial for consistency.</p>
<b>Motion</b>	To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC
<b>Discussion</b>	None
<b>Vote</b>	17 Y 0 N; Motion passed.

**Comment (Created by Handling Negative) NC – 3 (SG06)**

<b>Comment</b>	<p>2.5  <i>Negative:</i> Change “either instrument manufacturers or instrument users” to “<del>either</del> instrument manufacturers <del>or</del> <u>and</u> instrument users”.  <i>Reason/Justification:</i> As far as I can tell, both groups are within the intended audience.</p>	
	<p><b>The TC Chapter agreed to do one of the following actions.</b></p> <p><b>*No motion is required in this step.</b></p>	
<b>Action</b>	<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
	<input type="checkbox"/>	
	Options for editorial change (check one)	<p><b>Case 1: No vote in this section:</b></p> <p><b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b></p>
		<p><b>Case 2: Voted in this section:</b></p> <p><b>Original section number and at least one full sentence are required in “FROM” and “TO” fields.</b></p>
<b>Editorial</b>	1	<p><b>FROM: Section/Paragraph 2.5</b></p> <p>2.5 The intended users of this Guide are either instrument manufacturers or instrument users. The number of replicates and duration of performance criteria testing are provided in the Guide as recommended minimum values. However, instrument manufacturers may choose to run additional replicates over an extended period of time to further demonstrate instrument capabilities and performance.</p>

<b>TO: Section/Paragraph 2.5</b>	
2.5 The intended users of this Guide are <del>either</del> instrument manufacturers <del>or</del> and instrument users. The number of replicates and duration of performance criteria testing are provided in the Guide as recommended minimum values. However, instrument manufacturers may choose to run additional replicates over an extended period of time to further demonstrate instrument capabilities and performance.	
<b>Justification (If necessary)</b> Editorial in nature.	
<b>Motion</b>	To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC
<b>Discussion</b>	None
<b>Vote</b>	17 Y 0 N; Motion passed.

**Comment (Created by Handling Negative) NC – 4 (SG07)**

<b>Comment</b>	3.1 Negative: Clarify whether it is whether particle precursors in liquid chemicals are a problem what is being determined Reason/Justification: ? That's what this says, but the question occurred to me that what is being determined is how to develop test methods for particle precursors in liquid chemicals.			
	<b>The TC Chapter agreed to do one of the following actions.</b>			
<b>Action</b>	<b>*No motion is required in this step.</b>			
	<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"/>	<b>Case 1: No vote in this section:</b> <b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>	
		<input checked="" type="checkbox"/>	<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</b>	
	<b>Editorial</b>	1	<b>FROM: Section/Paragraph 3.1</b>	
			3.1 This Guide defines success criteria for analyzing particle precursors only in UPW. The concern of particle precursors in liquid chemicals is still being determined and may need to be considered in future revisions.	

<b>TO: Section/Paragraph 3.1</b>	
3.1 This Guide defines success criteria for analyzing particle precursors only in UPW. The concern of <a href="#">metrology for</a> particle precursors in liquid chemicals is still being determined and may need to be considered in future revisions.	
<b>Justification (If necessary)</b> Add "metrology for" to clarify that it is the second point.	
<b>Motion</b>	To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC
<b>Discussion</b>	None
<b>Vote</b>	17 Y 0 N; Motion passed.

**Comment (Created by Handling Negative) NC – 5 (SG08)**

<b>Comment</b>	3.4 Negative: Clarify what the concern is. Reason/Justification: Is the concern that things other than "particle precursors" can form particles on wafers, or that there are particles in UPW than will be found on wafers after drying and artificially increase the observed level of contamination?	
	<b>The TC Chapter agreed to do one of the following actions.</b>	
<b>Action</b>	<b>*No motion is required in this step.</b>	
	<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)	<b>Case 1: No vote in this section:</b> <b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>
		<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</b>
	<input checked="" type="checkbox"/>	
<b>Editorial Changes</b>	1	<b>FROM: Section/Paragraph 3.4</b>
		3.3 This Guide considers the measurement of particle precursors only in UPW and does not address the quantification of particles formed on a product wafer surface.  3.4 The analysis of particle precursors described in this Guide is an indirect measurement because dissolved particle precursors are being measured as particles after a drying step in the analytical process. Any other types of contamination may require consideration that measurement of particle formation on the wafer may be different and may need to be evaluated separately.

	<p><b>TO: Section/Paragraph 3.4</b></p> <p>3.3 This Guide considers the measurement of particle precursors only in UPW and does not address the quantification of particles formed on a product wafer surface.</p> <p>3.4 The analysis of particle precursors described in this Guide is an indirect measurement because dissolved particle precursors are being measured as particles after a drying step in the analytical process. <del>Any other types of contamination may require consideration that measurement of particle formation on the wafer may be different and may need to be evaluated separately.</del></p> <p><b>Justification (If necessary)</b> Remove this sentence, which is already addressed by ¶3.3.</p>
<b>Motion</b>	To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC
<b>Discussion</b>	None
<b>Vote</b>	17 Y 0 N; Motion passed.

**Comment (Created by Handling Negative) NC – 6 (SG09)**

<b>Comment</b>	<p>5.3 Negative: Move these items to §5.1 and delete ¶5.3 Reason/Justification: These are abbreviations, not “symbols”.</p>	
	<p><b>The TC Chapter agreed to do one of the following actions.</b></p> <p><b>*No motion is required in this step.</b></p>	
<b>Action</b>	<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
	<b>Options for editorial change (check one)</b>	<input type="checkbox"/>
<input checked="" type="checkbox"/>		<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in “FROM” and “TO” fields.</b>
<b>FROM: Section/Paragraph 5.3</b>		
<p>5.3 <i>Symbols</i></p> <p>5.3.1 <i>ppb</i> — parts per billion, ng/mL or µg/L</p> <p>5.3.2 <i>ppm</i> — parts per million, µg/mL or mg/L</p> <p>5.3.3 <i>ppt</i> — parts per trillion, pg/mL or ng/L</p>		
<b>Editorial Changes</b>	1	

<b>TO: Section/Paragraph 5.1</b>	
5.1 <i>Abbreviations and Acronyms</i>	
5.1.1 <i>HDPE</i> — high-density polyethylene	
5.1.2 <i>IC</i> — ion chromatography	
5.1.3 <i>IX resin</i> — ion exchange resin	
5.1.4 <i>MB</i> — mixed bed	
<u>5.1.5 <i>ppb</i> — parts per billion, ng/mL or µg/L</u>	
<u>5.1.6 <i>ppm</i> — parts per million, µg/mL or mg/L</u>	
<u>5.1.7 <i>ppt</i> — parts per trillion, pg/mL or ng/L</u>	
5.1. <del>5</del> 8 <i>RSD</i> — relative standard deviation	
5.1. <del>6</del> 9 <i>SAXS</i> — small angle X-ray scattering	
5.1. <del>7</del> 10 <i>UF</i> — ultrafilter	
5.1. <del>8</del> 11 <i>UPW</i> — ultrapure water	
...	
<del>5.3 <i>Symbols</i></del>	
<del>5.3.1 <i>ppb</i> — parts per billion, ng/mL or µg/L</del>	
<del>5.3.2 <i>ppm</i> — parts per million, µg/mL or mg/L</del>	
<del>5.3.3 <i>ppt</i> — parts per trillion, pg/mL or ng/L</del>	
<b>Justification (If necessary)</b>	
Moved units to abbreviations and acronyms section 5.1.	
<b>Motion</b>	To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC
<b>Discussion</b>	None
<b>Vote</b>	17 Y 0 N; Motion passed.

**Comment (Created by Handling Negative) NC – 7 (SG12)**

<b>Comment</b>	6.1.1.1 Negative: Do not capitalize “International Standards Organization”. Reason/Justification: I am not aware of any organization that has that name. There is the “International Organization for Standardation”, the abbreviation for which, “ISO”, does (I concede) suggest that it is named the “International Standards Organization”. More importantly, I’m not at all sure you can find a reference material that is traceable to ISO. Furthermore, why is “international” important? NIST has a variety of Standard Reference Materials, and the material described in this document appears to be from a German organization, not an “international” one.
	<b>The TC Chapter agreed to do one of the following actions.</b>
<b>Action</b>	<b>*No motion is required in this step.</b>
	Already addressed by Commenter #, Comment #
	No further action was taken by the TC Chapter.
	Refer to the TF for more consideration.
	New business

	<input checked="" type="checkbox"/>	Editorial change	
	Options for editorial change (check one)	<input type="checkbox"/>	<b>Case 1: No vote in this section:</b> <b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>
		<input checked="" type="checkbox"/>	<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</b>
Editorial Changes	1	<b>FROM: Section/Paragraph 6.1.1.1</b> 6.1.1.1 Size reference material that is traceable to an International Standards Organization,	
		<b>TO: Section/Paragraph 6.1.1.1</b> 6.1.1.1 Size reference material that is traceable to an <del>International S</del> standards <del>O</del> rganization,	
		<b>Justification (If necessary)</b> Remove confusion to ISO and uncapitalize "International Standards Organization". Add clarification that there is no requirement for the reference material to be traceable from an "international standard", so "international" was removed.	
Motion		To approve above editorial change(s)	
Motion by/2 <sup>nd</sup> by		By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC	
Discussion		None	
Vote		17 Y 0 N; Motion passed.	

**Comment (Created by Handling Negative) NC – 8 (SG16)**

Comment	7.1.1.1 Negative: Replace "our knowledge" with "the knowledge of the task force that developed this Guide" Reason/Justification: "Our" is too informal and begs the question of to whom the pronoun refers.		
	Action	<b>The TC Chapter agreed to do one of the following actions.</b> <b>*No motion is required in this step.</b>	
<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"/>	<b>Case 1: No vote in this section:</b> <b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>
		<input checked="" type="checkbox"/>	<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</b>



Editorial Changes	1	<p><b>FROM: Section/Paragraph 7.1.1</b></p> <p>7.1.1.1 To our knowledge, the only available standard that meets the criteria described in ¶ 6.1.1 is BAM-N0083, a 6 nm nominal diameter silver nanoparticle reference nanomaterial from Bundesanstalt für Materialforschung und-prüfung (BAM), the German Federal Institute for Materials Research and Testing. Therefore, the acceptable size range criteria for particle sizing accuracy is based on BAM-N008. Refer to Appendix 1 for basis of this range including validation data.</p>
		<p><b>TO: Section/Paragraph 7.1.1</b></p> <p>7.1.1.1 To <del>our</del> <u>the</u> knowledge <u>of the task force that developed this Guide</u>, the only available standard that meets the criteria described in ¶ 6.1.1 is BAM-N0083, a 6 nm nominal diameter silver nanoparticle reference nanomaterial from Bundesanstalt für Materialforschung und-prüfung (BAM), the German Federal Institute for Materials Research and Testing. Therefore, the acceptable size range criteria for particle sizing accuracy is based on BAM-N008. Refer to Appendix 1 for basis of this range including validation data.</p>
		<p><b>Justification (If necessary)</b> Clarify “our”</p>
	<p><b>Motion</b></p>	To approve above editorial change(s)
<p><b>Motion by/2<sup>nd</sup> by</b></p>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC	
<p><b>Discussion</b></p>	None	
<p><b>Vote</b></p>	17 Y 0 N; Motion passed.	

**Comment (Created by Handling Negative) NC – 9 (SG17)**

Comment	<p>7.1.1.1 Negative: Correct the cross-reference. Reason/Justification: The only criterion in ¶6.1.1 is that the material be “traceable”. If you meant to refer to ¶6.1.1 and its subordinate paragraphs, then refer to “§6.1.1”. Alternatively, make the items subordinate to ¶6.1.1 a bulleted list, rather than numbering them as if they were paragraphs, so that “¶6.1.1” refers to the items in that list.</p>	
	<p><b>The TC Chapter agreed to do one of the following actions.</b></p> <p><b>*No motion is required in this step.</b></p>	
Action	<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)	<p><b>Case 1: No vote in this section:</b> <b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b></p>
		<p><b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in “FROM” and “TO” fields.</b></p>
	<input checked="" type="checkbox"/>	

Editorial Changes	1	<b>FROM: Section/Paragraph 7.1.1.1</b>  7.1.1.1 To our knowledge, the only available standard that meets the criteria described in ¶ 6.1.1 is BAM-N008s, a 6 nm nominal diameter silver nanoparticle reference nanomaterial from Bundesanstalt für Materialforschung und-prüfung (BAM), the German Federal Institute for Materials Research and Testing. Therefore, the acceptable size range criteria for particle sizing accuracy is based on BAM-N008. Refer to Appendix 1 for basis of this range including validation data.
		<b>TO: Section/Paragraph 7.1.1.1</b>  7.1.1.1 To our knowledge, the only available standard that meets the criteria described in § 6.1.1 is BAM-N008s, a 6 nm nominal diameter silver nanoparticle reference nanomaterial from Bundesanstalt für Materialforschung und-prüfung (BAM), the German Federal Institute for Materials Research and Testing. Therefore, the acceptable size range criteria for particle sizing accuracy is based on BAM-N008. Refer to Appendix 1 for basis of this range including validation data.
		<b>Justification (If necessary)</b> Editorial in nature. Correct reference symbol.
	<b>Motion</b>	To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC	
<b>Discussion</b>	None	
<b>Vote</b>	17 Y 0 N; Motion passed.	

**Comment (Created by Handling Negative) NC – 10 (SG21)**

Comment	NOTE 4 after 7.1.3 Negative: Delete the parenthetical “, etc.” Reason/Justification: It is redundant to state “for example”, list examples, then state “and others”.	
	<b>The TC Chapter agreed to do one of the following actions.</b>  <b>*No motion is required in this step.</b>	
Action	<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"/>
<input checked="" type="checkbox"/>		<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in “FROM” and “TO” fields.</b>
<input type="checkbox"/>		

Editorial Changes	1	<b>FROM: Section/Paragraph NOTE 4</b>  NOTE 4: After instrument particle sizing is validated by Step 1, it is recommended that sizing confirmation is performed on a regular basis at an appropriate frequency (e.g., daily, weekly, monthly, etc.) defined by the instrument manufacturer to ensure instrument performance. A non-traceable reference nanoparticle standard (e.g., diafiltered 10 nm gold) may be used for ongoing size confirmation if it is first correlated to the traceable reference standard. The ongoing size confirmation should meet the criteria defined in § 7.1 .
		<b>TO: Section/Paragraph NOTE 4</b>  NOTE 4: After instrument particle sizing is validated by Step 1, it is recommended that sizing confirmation is performed on a regular basis at an appropriate frequency (e.g., daily, weekly, monthly, <del>etc.</del> ) defined by the instrument manufacturer to ensure instrument performance. A non-traceable reference nanoparticle standard (e.g., diafiltered 10 nm gold) may be used for ongoing size confirmation if it is first correlated to the traceable reference standard. The ongoing size confirmation should meet the criteria defined in § 7.1 .
		<b>Justification (If necessary)</b> Editorial in nature.
	<b>Motion</b>	To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC	
<b>Discussion</b>	None	
<b>Vote</b>	17 Y 0 N; Motion passed.	

**Comment (Created by Handling Negative) NC – 11 (SG22)**

Comment	7.2.1 <i>Negative:</i> Change “instrument (metrology being evaluated for particle precursor measurement) for” to “instrument ( <del>metrology</del> being evaluated for particle precursor measurement) for”. <i>Reason/Justification:</i> An instrument is not a “metrology”.	
	<b>The TC Chapter agreed to do one of the following actions.</b>  <b>*No motion is required in this step.</b>	
Action	<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"/>	<b>Case 1: No vote in this section:</b> <b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>
	<input checked="" type="checkbox"/>	<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in “FROM” and “TO” fields.</b>
	<input type="checkbox"/>	

Editorial Changes	1	<p><b>FROM: Section/Paragraph 7.2.1</b></p> <p>7.2.1 <i>Concentration Accuracy</i> — The average response of the instrument (metrology being evaluated for particle precursor measurement) for five replicate measurements (once per day for five consecutive days) of the dissolved standard (ultrafiltered potassium chloride) should be within ±10% of the expected mass concentration value. The expected concentration should be validated using IC analysis for Cl-.</p>
		<p><b>TO: Section/Paragraph 7.2.1</b></p> <p>7.2.1 <i>Concentration Accuracy</i> — The average response of the instrument (<del>metrology</del> being evaluated for particle precursor measurement) for five replicate measurements (once per day for five consecutive days) of the dissolved standard (ultrafiltered potassium chloride) should be within ±10% of the expected mass concentration value. The expected concentration should be validated using IC analysis for Cl-.</p>
		<p><b>Justification (If necessary)</b></p> <p>Editorial in nature. Remove word metrology and parentheses. (Having metrology after instrument is repetitive).</p>
<b>Motion</b>		To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>		By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC
<b>Discussion</b>		None
<b>Vote</b>		17 Y 0 N; Motion passed.

**Comment (Created by Handling Negative) NC – 12 (SG26)**

Comment	<p>7.2.3.3</p> <p>Negative: Change “versus” to “divided by” in two places.</p> <p>Reason/Justification: The quantities are not in opposition to one another, they are to be divided.</p>	
Action	<b>The TC Chapter agreed to do one of the following actions.</b>	
	<b>*No motion is required in this step.</b>	
	<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"/>	<b>Case 1: No vote in this section:</b>
	<input type="checkbox"/>	<b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>
	<input checked="" type="checkbox"/>	<b>Case 2: Voted in this section:</b>
		<b>Original section number and at least one full sentence are required in “FROM” and “TO” fields.</b>

Editorial Changes	1	<b>FROM: Section/Paragraph 7.2.3.3</b>  7.2.3.3 <i>Detection Efficiency</i> — The detection efficiency for particle metrology is defined as the number of particles detected/unit volume versus the number of actual particles/unit volume for the dissolved standard. For dissolved species, the detection efficiency is defined as detected concentration/unit volume versus actual concentration/unit volume for the applicable standard. No minimum detection efficiency is required here, but the detection efficiency of the technique should be reported as part of the metrology evaluation.
		<b>TO: Section/Paragraph 7.2.3.3</b>  7.2.3.3 <i>Detection Efficiency</i> — The detection efficiency for particle metrology is defined as the number of particles detected/unit volume <del>versus</del> <u>divided by</u> the number of actual particles/unit volume for the dissolved standard. For dissolved species, the detection efficiency is defined as detected concentration/unit volume <del>versus</del> <u>divided by</u> actual concentration/unit volume for the applicable standard. No minimum detection efficiency is required here, but the detection efficiency of the technique should be reported as part of the metrology evaluation.
		<b>Justification (If necessary)</b> Editorial to add clarity
	<b>Motion</b>	To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC	
<b>Discussion</b>	None	
<b>Vote</b>	17 Y 0 N; Motion passed.	

**Comment (Created by Handling Negative) NC – 13 (SG27)**

Comment	7.2.3.3 Negative: Change “concentration/unit volume” to “concentration” or “quantity/unit volume”. Reason/Justification: “Concentration/unit volume” would, for example, have the dimensions of “(grams/liter)/liter”.	
Action	<b>The TC Chapter agreed to do one of the following actions.</b>  <b>*No motion is required in this step.</b>	
	<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"/>	<b>Case 1: No vote in this section:</b> <b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>
	<input checked="" type="checkbox"/>	<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in “FROM” and “TO” fields.</b>

Editorial Changes	1	<b>FROM: Section/Paragraph 7.2.3.3</b>  7.2.3.3 <i>Detection Efficiency</i> — The detection efficiency for particle metrology is defined as the number of particles detected/unit volume divided by the number of actual particles/unit volume for the dissolved standard. For dissolved species, the detection efficiency is defined as detected concentration/unit volume divided by actual concentration/unit volume for the applicable standard. No minimum detection efficiency is required here, but the detection efficiency of the technique should be reported as part of the metrology evaluation.
		<b>TO: Section/Paragraph 7.2.3.3</b>  7.2.3.3 <i>Detection Efficiency</i> — The detection efficiency for particle metrology is defined as the number of particles detected/unit volume divided by the number of actual particles/unit volume for the dissolved standard. For dissolved species, the detection efficiency is defined as detected <del>concentration</del> quantity/unit volume divided by actual <del>concentration</del> quantity/unit volume for the applicable standard. No minimum detection efficiency is required here, but the detection efficiency of the technique should be reported as part of the metrology evaluation.
		<b>Justification (If necessary)</b> Editorial in nature to add clarity.
<b>Motion</b>		To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>		By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC
<b>Discussion</b>		None
<b>Vote</b>		17 Y 0 N; Motion passed.

**Comment (Created by Handling Negative) NC – 14 (SG28)**

Comment	7.2.4 Negative: Superscript the “2” in “R2” Reason/Justification: “R2” is a commonly used symbol in statistics. “R2” is the first half of a robot’s name in a series of tin-foil westerns.	
Action	<b>The TC Chapter agreed to do one of the following actions.</b>	
	<b>*No motion is required in this step.</b>	
	<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"/>	<b>Case 1: No vote in this section:</b> <b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>
	<input checked="" type="checkbox"/>	<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in “FROM” and “TO” fields.</b>

Editorial Changes	1	<b>FROM: Section/Paragraph 7.2.4</b>  7.2.4 <i>Dynamic Range</i> — The dynamic range is evaluated by analyzing standards for at least three concentrations spanning 10X to 100X the reported background concentration and plotting log of the measured values versus the log of expected values. Linearity is confirmed if the square of the correlation coefficient (R2) is greater than 0.95.
		<b>TO: Section/Paragraph 7.2.4</b>  7.2.4 <i>Dynamic Range</i> — The dynamic range is evaluated by analyzing standards for at least three concentrations spanning 10X to 100X the reported background concentration and plotting log of the measured values versus the log of expected values. Linearity is confirmed if the square of the correlation coefficient ( <b>R<sup>2</sup></b> ) is greater than 0.95.
		<b>Justification (If necessary)</b> Editorial in nature.
<b>Motion</b>		To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>		By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC
<b>Discussion</b>		None
<b>Vote</b>		17 Y 0 N; Motion passed.

**Comment (Created by Handling Negative) NC – 15 (SG30)**

Comment	8.1.1 Negative: Change “meet the quality as defined in” to “meet the criteria of”. Reason/Justification: “Meet the quality” is not a meaningful phrase.	
Action	The TC Chapter agreed to do one of the following actions.	
	<b>*No motion is required in this step.</b>	
	<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)	<b>Case 1: No vote in this section:</b> <b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>
		<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in “FROM” and “TO” fields.</b>
	<input checked="" type="checkbox"/>	
Editorial	1	<b>FROM: Section/Paragraph 8.1.1</b>  8.1.1 <i>UPW for Standards Preparation</i> — The UPW used to prepare all standards should meet the quality as defined in SEMI F63.

	<p><b>TO: Section/Paragraph 8.1.1</b></p> <p>8.1.1 <i>UPW for Standards Preparation</i> — The UPW used to prepare all standards should meet the <del>quality as defined in</del> <u>criteria of</u> SEMI F63.</p>
	<p><b>Justification (If necessary)</b></p> <p>Editorial in nature to add clarity.</p>
<b>Motion</b>	To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC
<b>Discussion</b>	None
<b>Vote</b>	17 Y 0 N; Motion passed.

**Comment (Created by Handling Negative) NC – 16 (SG32)**

<b>Comment</b>	<p>8.1.2 Negative: State to what HDPE is preferred and why. Reason/Justification: Is there some technical reason for preferring HDPE to, for example, PFA for these? If the reason is cost, but PFA provides equivalent performance, that should be stated so that the user has the choice of saving a bit on the containers or having the convenience and reduced error risk of having containers of only one material.</p>	
	<p><b>The TC Chapter agreed to do one of the following actions.</b></p> <p><b>*No motion is required in this step.</b></p>	
<b>Action</b>	<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)	<p><b>Case 1: No vote in this section:</b></p> <p><b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b></p>
		<p><b>Case 2: Voted in this section:</b></p> <p><b>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</b></p>
<b>Editorial</b>	1	<p><b>FROM: Section/Paragraph 8.1.2</b></p> <p>8.1.2 <i>Container Material</i> — For general sample preparation (silver reference nanomaterial, KCl, and IX resin extract), HDPE is preferred due to low particle precursor extraction at room temperature and reduced risk of particle losses to the wall of the container. Refrigerated storage of the samples when not in use and shielding from ambient or direct sunlight are recommended.</p>



<b>TO: Section/Paragraph 8.1.2</b>	
8.1.2 <i>Container Material</i> — For general sample preparation (silver reference nanomaterial, KCl, and IX resin extract), HDPE is <del>preferred</del> <u>recommended</u> due to low particle precursor extraction at room temperature and reduced risk of particle losses to the wall of the container. Refrigerated storage of the samples when not in use and shielding from ambient or direct sunlight are recommended.	
<b>Justification (If necessary)</b> Editorial in nature to add clarity.	
<b>Motion</b>	To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC
<b>Discussion</b>	None
<b>Vote</b>	17 Y 0 N; Motion passed.

**Comment (Created by Handling Negative) NC – 17 (SG35)**

<b>Comment</b>	8.3.1.2 Negative: Delete “actual”. Reason/Justification: What is to be recorded is a calculated concentration. How closely it matches what is actually there depends on the accuracy of the mass measurements.		
	<b>The TC Chapter agreed to do one of the following actions.</b>		
<b>Action</b>	<b>*No motion is required in this step.</b>		
	<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)	<b>Case 1: No vote in this section:</b> <b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>	
		<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in “FROM” and “TO” fields.</b>	
	<b>Editorial Changes</b>	1	<b>FROM: Section/Paragraph 8.3.1.2</b> 8.3.1.2 Record actual concentration of KCl using Equation 3:
			<b>TO: Section/Paragraph 8.3.1.2</b> 8.3.1.2 Record <del>actual</del> concentration of KCl using Equation 3:
<b>Justification (If necessary)</b> Editorial in nature - remove “actual” for clarity (it is unnecessary and may add confusion)			
<b>Motion</b>	To approve above editorial change(s)		

Motion by/2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC
Discussion	None
Vote	17 Y 0 N; Motion passed.

**Comment (Created by Handling Negative) NC – 18 (SG36)**

Comment	8.3.1.6 Negative: Clarity or reword “expected concentration”. Reason/Justification: Is the “expected concentration” here the “actual concentration” in ¶9.3.1.2? If so, state that. If not, describe how to determine what is “expected”.	
	The TC Chapter agreed to do one of the following actions.	
Action	<b>*No motion is required in this step.</b>	
	<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)	<p><b>Case 1: No vote in this section:</b> To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</p> <p><b>Case 2: Voted in this section:</b> Original section number and at least one full sentence are required in “FROM” and “TO” fields.</p>
	<input checked="" type="checkbox"/>	
Editorial Changes	1	<p><b>FROM: Section/Paragraph 8.3.1.6</b></p> <p>8.3.1.6 Analyze solution aliquot by ion chromatography to determine Cl- concentration. The value should be within ±5% of the expected concentration determined in ¶ 8.3.1.2 .</p>
		<p><b>TO: Section/Paragraph 8.3.1.6</b></p> <p>8.3.1.6 Analyze solution aliquot by ion chromatography to determine Cl- concentration. The value should be within ±5% of the <del>expected</del> concentration <del>determined</del>-calculated in ¶ 8.3.1.2 .</p>
		<p><b>Justification (If necessary)</b> Add clarity.</p>
Motion	To approve above editorial change(s)	
Motion by/2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC	
Discussion	None	
Vote	17 Y 0 N; Motion passed.	

**Comment (Created by Handling Negative) NC – 19 (SG37)**

Comment	8.3.1.7 Negative: Change “by dilute to” to “by diluting to” Reason/Justification: Correct grammar.	
	The TC Chapter agreed to do one of the following actions.  <b>*No motion is required in this step.</b>	
Action	<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
	<input type="checkbox"/>	
	Options for editorial change (check one)	<p><b>Case 1: No vote in this section:</b> To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</p> <p><b>Case 2: Voted in this section:</b> Original section number and at least one full sentence are required in “FROM” and “TO” fields.</p>
	<input checked="" type="checkbox"/>	
Editorial Changes	1	<p><b>FROM: Section/Paragraph 8.3.1.7</b></p> <p>8.3.1.7 Prepare a stock solution by dilute to 100 ppm nominal concentration with UPW based on gravimetric concentration. Prepare additional solution as required using offline or online dilution techniques as appropriate for the instrument.</p>
		<p><b>TO: Section/Paragraph 8.3.1.7</b></p> <p>8.3.1.7 Prepare a stock solution by diluteing to 100 ppm nominal concentration with UPW based on gravimetric concentration. Prepare additional solution as required using offline or online dilution techniques as appropriate for the instrument.</p>
		<p><b>Justification (If necessary)</b> Editorial in nature – grammar.</p>
Motion	To approve above editorial change(s)	
Motion by/2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC	
Discussion	None	
Vote	17 Y 0 N; Motion passed.	

**Comment (Created by Handling Negative) NC – 20 (SG38)**

Comment	8.3.1.7 Negative: Clarity or reword “gravimetric concentration”. Reason/Justification: Is the “gravimetric concentration” here the “actual concentration” in ¶9.3.1.2? If so, state that. If not, describe how to determine the “gravimetric concentration”.

		<b>The TC Chapter agreed to do one of the following actions.</b>	
		<b>*No motion is required in this step.</b>	
<b>Action</b>	<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)	<p><b>Case 1: No vote in this section:</b></p> <p><b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b></p> <p><b>Case 2: Voted in this section:</b></p> <p><b>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</b></p>
		<input checked="" type="checkbox"/>	
<b>Editorial Changes</b>	<b>1</b>	<b>FROM: Section/Paragraph 8.3.1.7</b>	
		8.3.1.7 Prepare a stock solution by diluting to 100 ppm nominal concentration with UPW based on gravimetric concentration. Prepare additional solution as required using offline or online dilution techniques as appropriate for the instrument.	
		<b>TO: Section/Paragraph 8.3.1.7</b>	
		8.3.1.7 Prepare a stock solution by diluting to 100 ppm nominal concentration with UPW based on <del>gravimetric</del> concentration <u>calculated in ¶ 8.3.1.2</u> . Prepare additional solution as required using offline or online dilution techniques as appropriate for the instrument.	
		<b>Justification (If necessary)</b> Add clarity.	
<b>Motion</b>		To approve above editorial change(s)	
<b>Motion by/2<sup>nd</sup> by</b>		By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC	
<b>Discussion</b>		None	
<b>Vote</b>		17 Y 0 N; Motion passed.	

**Comment (Created by Handling Negative) NC – 21 (SG39)**

<b>Comment</b>	8.3.1.9 Negative: Clarify to what "typical... range" this refers. Reason/Justification: This sentence states that the "typical range" is three to eight orders of magnitude lower than the concentration to which ¶8.3.1.7 directs dilution. ¶8.3.1.8 suggests that "multiple concentrations should be run", but there's no instruction to dilute the "stock solution" prepared in ¶8.3.1.7.		
<b>Action</b>	<b>The TC Chapter agreed to do one of the following actions.</b>		
	<b>*No motion is required in this step.</b>		
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #	
<input type="checkbox"/>	No further action was taken by the TC Chapter.		

		Refer to the TF for more consideration.
		New business
	X	Editorial change
	Options for editorial change (check one)	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.
	X	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.
Editorial Changes	1	FROM: Section/Paragraph 8.3.1.9 8.3.1.9 The typical KCl concentration range during testing is 1 ppt to 100 ppb. This range may be adjusted based on the operating range of the instrument.
		TO: Section/Paragraph 8.3.1.9 8.3.1.9 The <del>typical</del> recommended KCl concentration range during testing is 1 ppt to 100 ppb. This range may be adjusted based on the operating range of the instrument.
		Justification (If necessary) Add clarity.
Motion		To approve above editorial change(s)
Motion by/2 <sup>nd</sup> by		By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC
Discussion		None
Vote		17 Y 0 N; Motion passed.

**Comment (Created by Handling Negative) NC – 22 (SG43)**

Comment	A1-1.1 Negative: Replace "our knowledge" with "the knowledge of the task force that developed this Guide" Reason/Justification: "Our" is too informal and begs the question of to whom the pronoun refers.	
	The TC Chapter agreed to do one of the following actions.	
Action	*No motion is required in this step.	
		Already addressed by Commenter #, Comment #
		No further action was taken by the TC Chapter.
		Refer to the TF for more consideration.
		New business
	X	Editorial change
	Options for editorial	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.

	change (check one)	X	<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</b>
	Editorial Changes 1	<b>FROM: Section/Paragraph A1-1.1</b>  A1-1.1 For preliminary Step 1 testing, a 6 nm silver certified reference nanomaterial (BAM-N008) was purchased from Bundesanstalt für Materialforschung und-prüfung (BAM) for analysis. To our knowledge, this is the only available standard that meets the criteria described in ¶ 6.1.1.	
		<b>TO: Section/Paragraph A1-1.1</b>  A1-1.1 For preliminary Step 1 testing, a 6 nm silver certified reference nanomaterial (BAM-N008) was purchased from Bundesanstalt für Materialforschung und-prüfung (BAM) for analysis. To <del>our</del> <u>the knowledge of the task force that developed this Guide</u> , this is the only available standard that meets the criteria described in ¶ 6.1.1.	
		<b>Justification (If necessary)</b> Add clarity to "our"	
Motion	To approve above editorial change(s)		
Motion by/2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC		
Discussion	None		
Vote	17 Y 0 N; Motion passed.		

**Comment (Created by Handling Negative) NC – 23 (SG44)**

Comment	A1-1.1 Negative: Correct the cross-reference. Reason/Justification: The only criterion in ¶6.1.1 is that the material be "traceable". If you meant to refer to ¶6.1.1 and its subordinate paragraphs, then refer to "§6.1.1". Alternatively, make the items subordinate to ¶6.1.1 a bulleted list, rather than numbering them as if they were paragraphs, so that "¶6.1.1" refers to the items in that list.		
	Action	<b>The TC Chapter agreed to do one of the following actions.</b>	
<b>*No motion is required in this step.</b>			
<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)		<b>Case 1: No vote in this section:</b> <b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>
		X	<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</b>

Editorial Changes	1	<p><b>FROM: Section/Paragraph A1-1.1</b></p> <p>A1-1.1 For preliminary Step 1 testing, a 6 nm silver certified reference nanomaterial (BAM-N008) was purchased from Bundesanstalt für Materialforschung und-prüfung (BAM) for analysis. To the knowledge of the task force that developed this Guide, this is the only available standard that meets the criteria described in ¶ 6.1.1.</p>
		<p><b>TO: Section/Paragraph A1-1.1</b></p> <p>A1-1.1 For preliminary Step 1 testing, a 6 nm silver certified reference nanomaterial (BAM-N008) was purchased from Bundesanstalt für Materialforschung und-prüfung (BAM) for analysis. To the knowledge of the task force that developed this Guide, this is the only available standard that meets the criteria described in § 6.1.1.</p>
		<p><b>Justification (If necessary)</b> Editorial in nature. Correct reference symbol.</p>
<b>Motion</b>		To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>		By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC
<b>Discussion</b>		None
<b>Vote</b>		17 Y 0 N; Motion passed.

**Comment (Created by Handling Negative) NC – 24 (SG45)**

Comment	<p>A1-1.2 Negative: Use and abbreviation that is based on the term being abbreviated. Reason/Justification: There is no “N” between the “L” and the “S” in “Liquid Particle Sizing”. More generally, these two abbreviations are missing from §5.1 It might also be helpful to provide a sentence or two explaining what each of these techniques is.</p>	
Action	<b>The TC Chapter agreed to do one of the following actions.</b>	
	<b>*No motion is required in this step.</b>	
	<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"/>	<b>Case 1: No vote in this section:</b> <b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>
	<input checked="" type="checkbox"/>	<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in “FROM” and “TO” fields.</b>
	<input type="checkbox"/>	

Editorial Changes	1	<p><b>FROM: Section/Paragraph A1-1.2</b></p> <p>5.1 <i>Abbreviations and Acronyms</i></p> <p>5.1.1 <i>HDPE</i> — high-density polyethylene</p> <p>5.1.2 <i>IC</i> — ion chromatography</p> <p>5.1.3 <i>IX resin</i> — ion exchange resin</p> <p>5.1.4 <i>MB</i> — mixed bed</p> <p>5.1.5 <i>PFA</i> — perfluoroalkoxy</p> <p>5.1.6 <i>RSD</i> — relative standard deviation</p> <p>5.1.7 <i>SAXS</i> — small angle X-ray scattering</p> <p>5.1.8 <i>UF</i> — ultrafilter</p> <p>5.1.9 <i>UPW</i> — ultrapure water</p>
		<p><b>TO: Section/Paragraph A1-1.2</b></p> <p>5.1 <i>Abbreviations and Acronyms</i></p> <p><u>5.1.1 CPC — condensation particle counter</u></p> <p><u>5.1.2 DLS — dynamic light scattering</u></p> <p><del>5.1.3</del> <u>5.1.3 DMA — differential mobility analyzer-</u></p> <p><del>5.1.4</del> <u>5.1.4 HDPE</u> — high-density polyethylene</p> <p><del>5.1.5</del> <u>5.1.5 IC</u> — ion chromatography</p> <p><del>5.1.6</del> <u>5.1.6 IX resin</u> — ion exchange resin</p> <p><u>5.1.7 LNS — Liquid nanoparticle sizer</u></p> <p><del>5.1.8</del> <u>5.1.8 MB</u> — mixed bed</p> <p><del>5.1.9</del> <u>5.1.9 PFA</u> — perfluoroalkoxy</p> <p><del>5.1.10</del> <u>5.1.10 RSD</u> — relative standard deviation</p> <p><del>5.1.11</del> <u>5.1.11 SAXS</u> — small angle X-ray scattering</p> <p><u>5.1.12 STPC — scanning threshold particle counter</u></p> <p><del>5.1.13</del> <u>5.1.13 UF</u> — ultrafilter</p> <p><del>5.1.14</del> <u>5.1.14 UPW</u> — ultrapure water</p>
		<p><b>Justification (If necessary)</b></p> <p>Reviewer is incorrect - document already says liquid nanoparticle sizing, not liquid particle sizing. To address second part of comment, editorial change to add abbreviations to 5.1 (LNS, STPC, DMA, CPC, DLS).</p>
		<p><b>Motion</b></p> <p>To approve above editorial change(s)</p>
		<p><b>Motion by/2<sup>nd</sup> by</b></p> <p>By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC</p>
		<p><b>Discussion</b></p> <p>None</p>
		<p><b>Vote</b></p> <p>17 Y 0 N; Motion passed.</p>



**Comment (Created by Handling Negative) NC – 25 (SG46)**

<b>Comment</b>	Figure A1-4 Negative: Correct the arithmetic. Reason/Justification: The calculations in this table appear a bit off. "DMA" is 28.4 and "SAXS" is 24.9, but "DMA – SAXS" is stated as "-3.5", which is the opposite of what I get when I subtract 24.9 from 28.4.																																																																																				
	<b>The TC Chapter agreed to do one of the following actions.</b> *No motion is required in this step.																																																																																				
<b>Action</b>	<input type="checkbox"/> Already addressed by Commenter #, Comment #																																																																																				
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<b>Editorial Changes</b>	<b>1</b>	<b>FROM: Section/Paragraph Figure A1-4</b>																																																																																			
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Analysis Technique</th> <th colspan="2">NIST 30 nm Gold (RM 8012)</th> <th colspan="2">BAM 6 nm Ag (CRM BAM-N008)</th> </tr> <tr> <th>Value (nm)</th> <th>Uncertainty (nm)</th> <th>Value (nm)</th> <th>Uncertainty (nm)</th> </tr> </thead> <tbody> <tr> <td>Atomic Force Microscopy (ATF)</td> <td>24.9</td> <td>1.1</td> <td></td> <td></td> </tr> <tr> <td>Scanning Electron Microscopy (SEM)</td> <td>26.9</td> <td>0.1</td> <td></td> <td></td> </tr> <tr> <td>Transmission Electron Microscopy (TEM)</td> <td>27.6</td> <td>2.1</td> <td></td> <td></td> </tr> <tr> <td>Differential Mobility Analysis (DMA)</td> <td>28.4</td> <td>1.1</td> <td>8.9</td> <td>na</td> </tr> <tr> <td>Dynamic Light Scattering (DLS)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>    173° scattering angle</td> <td>28.6</td> <td>0.9</td> <td></td> <td></td> </tr> <tr> <td>    90° scattering angle</td> <td>26.5</td> <td>3.6</td> <td>9.0</td> <td>na</td> </tr> <tr> <td>Small-Angle X-ray Scattering (SAXS)</td> <td>24.9</td> <td>1.2</td> <td>5.8</td> <td>0.5</td> </tr> <tr> <td>    <b>Average</b></td> <td>26.8</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    <b>Std Dev</b></td> <td>1.5</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    Average - SAXS</td> <td>1.9</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    DMA - SAXS</td> <td>-3.5</td> <td></td> <td>-3.1</td> <td></td> </tr> <tr> <td colspan="2"><b>Allowable Range</b></td> <td>Lower Limit:</td> <td colspan="2">= BAM Value minus Uncertainty = 5.3 nm</td> </tr> <tr> <td colspan="2"></td> <td>Upper Limit:</td> <td colspan="2">= BAM Value plus NIST DMA -SAXS = 9.3 nm</td> </tr> </tbody> </table>					Analysis Technique	NIST 30 nm Gold (RM 8012)		BAM 6 nm Ag (CRM BAM-N008)		Value (nm)	Uncertainty (nm)	Value (nm)	Uncertainty (nm)	Atomic Force Microscopy (ATF)	24.9	1.1			Scanning Electron Microscopy (SEM)	26.9	0.1			Transmission Electron Microscopy (TEM)	27.6	2.1			Differential Mobility Analysis (DMA)	28.4	1.1	8.9	na	Dynamic Light Scattering (DLS)					173° scattering angle	28.6	0.9			90° scattering angle	26.5	3.6	9.0	na	Small-Angle X-ray Scattering (SAXS)	24.9	1.2	5.8	0.5	<b>Average</b>	26.8				<b>Std Dev</b>	1.5				Average - SAXS	1.9				DMA - SAXS	-3.5		-3.1		<b>Allowable Range</b>		Lower Limit:	= BAM Value minus Uncertainty = 5.3 nm				Upper Limit:	= BAM Value plus NIST DMA -SAXS = 9.3 nm	
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TO: Section/Paragraph <b>Figure A1-4</b>				
Analysis Technique	NIST 30 nm Gold (RM 8012)		BAM 6 nm Ag (CRM BAM-N008)	
	Value (nm)	Uncertainty (nm)	Value (nm)	Uncertainty (nm)
Atomic Force Microscopy (ATF)	24.9	1.1		
Scanning Electron Microscopy (SEM)	26.9	0.1		
Transmission Electron Microscopy (TEM)	27.6	2.1		
Differential Mobility Analysis (DMA)	28.4	1.1	8.9	0.8
Dynamic Light Scattering (DLS)				
173° scattering angle	28.6	0.9		
90° scattering angle	26.5	3.6	9.0	0.8
Small-Angle X-ray Scattering (SAXS)	24.9	1.2	5.8	0.5
<b>Average</b>	26.8			
<b>Std Dev</b>	1.5			
Average - SAXS	1.9			
DMA - SAXS	-3.5		-3.1	
<b>Allowable Range</b>	Lower Limit: = BAM Value minus <u>Uncertainty</u> = 5.3 nm			
	Upper Limit: = BAM Value plus NIST DMA -SAXS = 9.3 nm			
<b>Justification (If necessary)</b> Correct typo.				
<b>Motion</b>	To approve above editorial change(s)			
<b>Motion by/2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC			
<b>Discussion</b>	None			
<b>Vote</b>	17 Y 0 N; Motion passed.			

**Comment (Created by Handling Negative) NC – 26 (SG47)**

<b>Comment</b>	A2-2.9 Negative: Change “amount” to “number”. Reason/Justification: If the desired degree of diafiltration is determined in the number of cycles, then this should be “number of diafiltration cycles”, as cycles are countable. If the desired degree is determined by the volume of permeate, then this should be “volume of diafiltration”, as volume is measurable, but not countable.		
	<b>The TC Chapter agreed to do one of the following actions.</b>		
<b>Action</b>	<b>*No motion is required in this step.</b>		
	<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	
<b>Options for editorial</b>	<b>Case 1: No vote in this section:</b>		
	<b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>		
	<b>Case 2: Voted in this section:</b>		

	change (check one)	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.
Editorial Changes	1	FROM: Section/Paragraph A2-2.9	
		A2-2.9 Repeat steps A2-2.6 and A2-2.7 until the desired amount of diafiltration cycles are completed. The cycle ends with UPW addition, so final volume will be approximately 50 mL.	
		TO: Section/Paragraph A2-2.9	
		A2-2.9 Repeat steps A2-2.6 and A2-2.7 until the desired <del>amount</del> <u>number</u> of diafiltration cycles are completed. The cycle ends with UPW addition, so final volume will be approximately 50 mL.	
		Justification (If necessary) Add clarity.	
Motion		To approve above editorial change(s)	
Motion by/2 <sup>nd</sup> by		By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC	
Discussion		None	
Vote		17 Y 0 N; Motion passed.	

Comment (Created by Handling Negative) **NC – 27 (SG49)**

Comment	Figure R1-1 Negative: Provide larger, clear type in the Figure. Reason/Justification: The type in this figure is too small. Enlarging the image results in type that's large enough to read, but too blurry.		
	The TC Chapter agreed to do one of the following actions.		
Action	<b>*No motion is required in this step.</b>		
		Already addressed by Commenter #, Comment #	
		No further action was taken by the TC Chapter.	
		Refer to the TF for more consideration.	
		New business	
	X	Editorial change	
Options for editorial change (check one)		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.	
	X	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.	

Editorial Changes	FROM: Section/Paragraph <b>Figure R1-1</b>
	<b>Liquid Nanoparticle Sizing (LNS)</b> 
	TO: Section/Paragraph <b>Figure R1-1</b>
1	<b>Liquid Nanoparticle Sizing (LNS)</b> 
	<b>Justification (If necessary)</b> Higher resolution image provided for clarity.
Motion	To approve above editorial change(s)
Motion by/2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC
Discussion	None
Vote	17 Y 0 N; Motion passed.

**Comment (Created by Handling Negative) NC – 28 (SG50)**

Comment	Figure R1-2 Negative: Provide larger, clear type in the Figure. Reason/Justification: The type in this figure is too small. Enlarging the image results in type that's large enough to read, but too blurry.
	The TC Chapter agreed to do one of the following actions.
Action	<b>*No motion is required in this step.</b>
	<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
	Case 1: No vote in this section:

	Options for editorial change (check one)		To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.
		X	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.
Editorial Changes		<b>FROM: Section/Paragraph Figure R1-2</b>	
		Scanning Threshold Particle Counting (STPC) Illustrations courtesy of Kanomax FMT	
	1	<b>TO: Section/Paragraph Figure R1-2</b>	
		Scanning Threshold Particle Counting (STPC) Illustrations courtesy of Kanomax FMT	
		<b>Justification (If necessary)</b> Higher resolution image provided for clarity.	
Motion	To approve above editorial change(s)		
Motion by/2 <sup>nd</sup> by	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC		
Discussion	None		
Vote	17 Y 0 N; Motion passed.		

**Comment (Created by Handling Negative) NC – 29 (SG50)**

Comment	<p>Figure R1-3  Negative: Clarify the Figure  Reason/Justification: This graph is hard to read because the symbols for the data points are hard to distinguish by shape at the size provided and many of the curves overlap. As the apparent purpose of including this graph is to convey a concept of particle count as a function of KCl concentration, I suggest providing a simplified graph with the blank and KCl concentrations of 1ppt, 100 ppt, 1ppb, and 100 ppb.</p>
Acti	<p>The TC Chapter agreed to do one of the following actions.  *No motion is required in this step.</p>

	Already addressed by Commenter #, Comment #
	No further action was taken by the TC Chapter.
	Refer to the TF for more consideration.
	New business
X	Editorial change

Options for editorial change (check one)		<b>Case 1: No vote in this section:</b>
		To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.
	X	<b>Case 2: Voted in this section:</b>
	X	Original section number and at least one full sentence are required in "FROM" and "TO" fields.

**FROM: Section/Paragraph Figure R1-2**

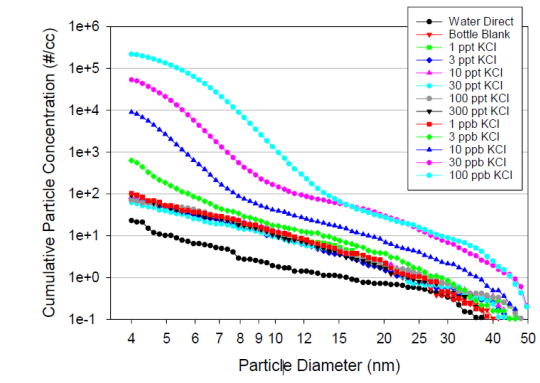
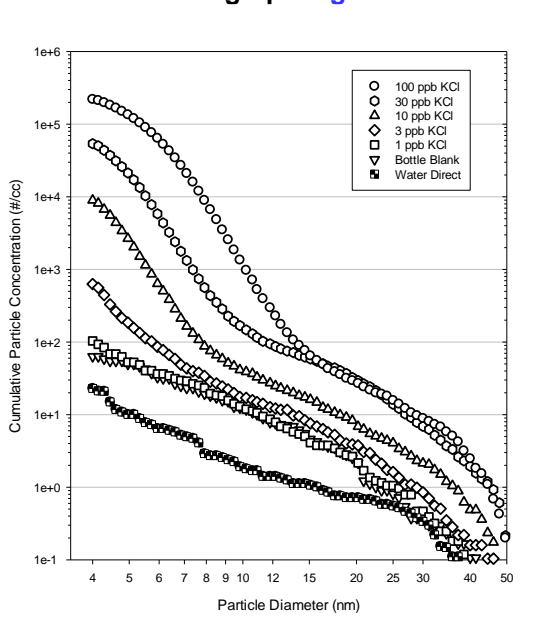


Figure R1-3  
Cumulative Particle Distribution of KCl as Measured by CTA LNS

**TO: Section/Paragraph Figure R1-2**



**Justification (If necessary)**  
improve the readability of the image.

Editorial Changes

1

<b>Motion</b>	To approve above editorial change(s)
<b>Motion by/2<sup>nd</sup> by</b>	By: Paul Kerr / Intel Corporation Second: vyacheslav Libman / FTD Solutions LLC

Discussion	None
Vote	17 Y 0 N; Motion passed.

## 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*)

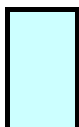
**APPROVAL CONDITION 2:** At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations ¶ 9.6.2.1.3*)

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

		Accepts		(Accepts + Valid Rejects)					
Approval Rate	=	48	/	50	=	96.0%		≥90%	

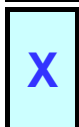
### VII. – (ii) Approval Level (check one)

**Note:** See *Regulations § 9.6.2* 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 <b>Safety Document</b> , 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 <b>Safety Document</b> , 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 <sup>nd</sup> by		By: David Kandiyeli / Mega Fluid Systems, Inc. Second: Laura Ledenbach / Peroxy Chem
Discussion		None
Vote		17 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\*. See *Regulations § 16* for further information.

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

## 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/ 2 <sup>nd</sup> by		By: Darren Conner / Evantic Second: Chuck Dale / SUEZ
Discussion		None
Vote		16 Y 0 N
Final Action	<input checked="" type="checkbox"/>	Motion passed.
	<input type="checkbox"/>	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.