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

Region/Locale: North America
Global Technical Committee: EH&S
TC Chapter Cochairs: Chris Evanston (Salus Engineering), Sean Larsen (LAM Research), Bert Planting (ASML)
Standards Staff: Kevin Nguyen

	Scheduled in Background Statement	Actual
Date	May 6, 2021	May 6, 2021
Location	OVTCCM	OVTCCM
Reason for Change of Date and/or Location (if changed)		

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

Document Information

I. Document Number, Title, Lists of Line Items

Document Number	Document Title
6515	Line Item Revision of SEMI S23-1216 - Guide for Energy, Utilities, and Materials Use Efficiency of Semiconductor Manufacturing Equipment
Line Item 1	Line Item Title Changes related to process cooling water.

Line Item 1 Adjudication

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:

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	72	÷	119	=	60.5%	≥60%
Intercommittee Ballot	24					
Voting Interest Reject(s)	1		Total Voters with Rejects		1	
Voting Interest Accept(s)	46					

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: ASM)

Voter Reject 1 (Voter: Mark Fessler (ASM))

Negative 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.			
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.			
		The justification for the change (6.4) is full of Opinions and not facts. Also points to SME potentially need to change equipment to accommodate PCW that will be a higher temperature than typically required/requested for heat removal. This requirement could lead to having to increase size of cooling water circuits and heat exchangers to remove the same amount of heat due to the smaller delta T. This would potentially increase the foot print of the system and could also require the use of large recirculation pumps so the total energy saving may not be as large as anticipated. While ASM appreciates the task force providing awareness to the potential cost/energy saving for manufactures I believe the burden it places on SME as written is not justified.			
TF input (optional)					
Withdrawal (check one)			No Negative withdrawal made by Voter.		GO TO "Related" subsection
		x	Withdrawal document received by Standards staff on May 4, 2021.		GO TO "Final" subsection → (A)
Final	(check if applicable)	x	(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
			(F)	Addressed by technical change (counted under k disposition)	
	(check if applicable)		Comment generated. See Section V-(ii) Comment # X.		

Disposition of Voting Interest Reject 1

Check only when the Document has not been failed.

1	Original number (#) of Negatives	**(g)**
1	Number of Negatives withdrawn	**(h)**
#	Number of Negatives found not related	**(i)**
#	Number of Negatives found not significant	**(j)**
#	Number of Negatives addressed by technical change **(Negative becomes not significant)**	**(k)**

Final	x	**g** - (**h** + **i** +**j** + **k**) = 0	**Reject is Not Valid and is not included in the denominator of § VI. *Approval Conditions Check***
		g - (**h** + **i** +**j** + **k**) >0	**Reject is included in the denominator of § VI. *Approval Conditions Check***
		Reject without a Negative	**Not Valid**

Note: If all of the Negatives included with a Reject Vote are withdrawn, determined to be not related, or determined to be not significant, the Reject Vote is not valid. (*Regulations* ¶ 9.4.3.3)
Note: A Negative addressed by a technical change is automatically considered to be not significant. (*Regulations* ¶ 9.6.1.4.5.2)

IV. Other Technical Issues

None

V. Comments

V- (i) Voters' Comments

Commenter 1 (Eric Sklar/Safety Guru) - Comment 1

Comment	**Table Note 4 to Table 3**	
	Comment: The '3' immediately following the 'm' should be a superscript. I believe this would be obvious to a reader normally skilled in science or engineering and is confirmed by the equation within the Table Note. I believe this may be corrected as a Type 1 editorial change.	
Action	**The TC Chapter agreed to do one of the following actions.**	
	***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 change **(check one)**	x **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.*
		Case 2: Voted in this section:
		Original section number and at least one full sentence are required in "FROM" and "TO" fields.

Commenter 1 (Eric Sklar/Safety Guru) - Comment 2

Comment	**Figure A2-2**		
	Comment: The vertical cell margins within the 'Additional Resource ECFs' section should be removed. This is a cosmetic change and I believe this may be corrected as a Type 1 editorial change.		
Action	**The TC Chapter agreed to do one of the following actions.**		
	***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 change **(check one)**	x	**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.*
			Case 2: Voted in this section:
			Original section number and at least one full sentence are required in "FROM" and "TO" fields.

Commenter 2 (Mark Denome /AMAT) - Comment 1

Comment	**Figure A2-2**		
	Comment: I Accept enthusiastically but recommend that the Gettysburg Address not be used as sample text in the "Additional Notes" section in Appendix 2. Something like 'Add additional notes here' I think would be sufficient and perhaps not confusing or distracting.		
Action	**The TC Chapter agreed to do one of the following actions.**		
	***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 change **(check one)**	x	**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.*
			Case 2: Voted in this section:
			Original section number and at least one full sentence are required in "FROM" and "TO" fields.

Commenter 3 (Lauren Crane /TEL) - Comment 1

Comment	**Figure A2-2 And Related supplemental Materials document.**		
	Comment: Editorial Comment I think the text shown for "Additional Notes Text" is inappropriate for a SEMI standard (it is theist, politically charged, nationally focused, and I think it is too glib). === Replace the text with text that is more neutral, professional, and instructive such as "[Put any additional notes here such as further details about the test location, or equipment under test, or test conditions.]".		
Action	**The TC Chapter agreed to do one of the following actions.**		
	***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 change **(check one)**	x	**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.*
			Case 2: Voted in this section:
			Original section number and at least one full sentence are required in "FROM" and "TO" fields.

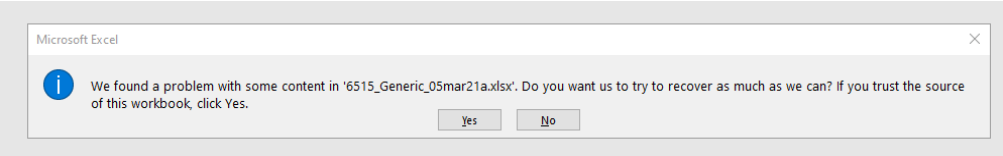
Commenter 3 (Lauren Crane /TEL) - Comment 2

	LI

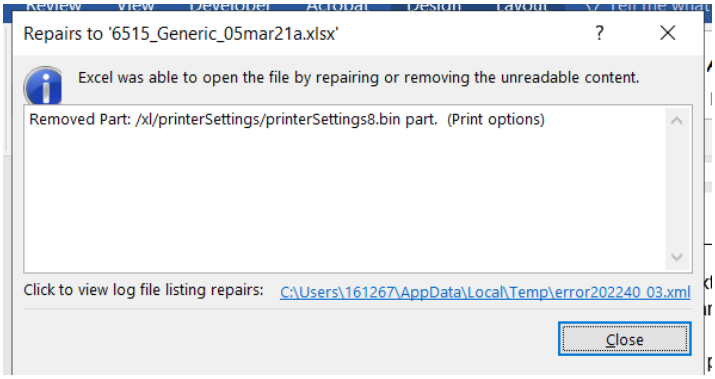
Comment

Technical Comment

My excel complained when opening the 'generic' supplemental material file – it was essentially unusable once opened



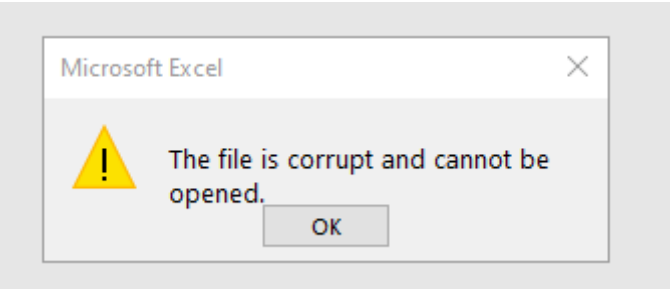
If answering yes…



If answering 'no' the file does not open. Embedded here is the file post "repairs" by excel.

LC post-repairs 6515_Generic_05mar2

When trying the 'Location Specific' file I got a corruption message.



My Excel is

Microsoft® Excel® 2016 (16.0.5134.1000) MSO (16.0.5134.1000) 32-bit

Action

The TC Chapter agreed to do one of the following actions.	
***No motion is required in this step.**	
	Already addressed by Commenter #, Comment #
x	No further action was taken by the TC Chapter.
	Refer to the TF for more consideration.
	New Business
	Editorial Change

V-(ii) Comments Created by Handling Negative

None

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

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

<table>
<tr><td rowspan="4">1</td><td rowspan="2">Origin of this editorial change
(Check one)</td><td>x</td><td>Commenter 1 / Comment(s) 1</td></tr>
<tr><td></td><td>Other [ ]</td></tr>
<tr><td colspan="3">FROM:
Note 5 in table 3
Table 3 Recommended Energy Conversion Factors

#5 The ECF in kJ/m3 of PCW can be calculated from the ECF in kJ(electric)/kJ(thermal) by multiplying by a constant representing the amount of heat in water per unit volume and unit temperature change and by the temperature change of the water.</td></tr>
<tr><td colspan="3">TO: Note 5 in table 3
Table 3 Recommended Energy Conversion Factors

#5 The ECF in kJ/m^3 of PCW can be calculated from the ECF in kJ(electric)/kJ(thermal) by multiplying by a constant representing the amount of heat in water per unit volume and unit temperature change and by the temperature change of the water.</td></tr>
<tr><td colspan="3">Justification: (If necessary)
Editorial. Make "3" superscript.</td></tr>
<tr><td rowspan="2">2</td><td rowspan="2">Origin of this editorial change
(Check one)</td><td>x</td><td>Commenter 1 / Comment #2</td></tr>
<tr><td></td><td>Other [ ]</td></tr>
</table>

FROM:
Figure A2-2 Recommended Format for Annualized Reporting, Page 2 of 3

Exhaust Static Pressure (Pa)	Exhstat				*Temp. (°C)*	*Pressure (kPa)*			*Temp. (°C)*	*Pressure (kPa)*	*Pressure (kPa)*			
Vacuum Pressure (Pa)	VacPress												*Temp. (°C)*	*Pressure (kPa)*
Electricity Phases	ElecPhase	*Nitrogen*	N2temp	N2press	*PCW-C*	Ctemp	Csuppress	Cretpress				*UPW/DIW*	UPWtemp	UPWpress
Nominal Voltage	ElecVolt	*CDA*	cdatem	cdapress	*PCW-T*	Ttemp	T sup	Tret				*HT UPW/DIW*	HTtemp	HT press
UPW/DIW Required Purity	UPWpur	*HPCDA*	HPtemp	HPpress	*PCW-D*	Dtemp	Dsup	Dret						
HT UPW/DIW Required Purity	HTpur													

Time Allotment

Total =	100%	= (8760 hours/year)
Downtime =	5%	= (438 hours/year)
Process =	70%	= (6132 hours/year)
Free time (Idle, Sleep, & Rest)	25%	= (2190 hours/year)
Sleep (includes transitions)	17%	= (1460 hours/year)
Rest (includes transitions)	0%	= (0 hours/year)
Idle	8%	= (730 hours/year)

Constant ECFs

Resource	Units	ECF
Exhaust	kJ/m³	13
Vacuum	kJ/m³	216
CDA	kJ/m³	529
HPCDA	kJ/m³	630
Nitrogen (N2)	kJ/m³	900
Electricity	kJ/kJ	1.0
UPW or DIW Temp ≤25°C	kJ/m³	32400
DIW pressurized, Temp >85°C	kJ/m³	332000
Heat Load (Cooling Load)	kJ/kJ	0.29

PCW ECFs

ECFs for PCW depend on the temperature change and, for PCW-D, the supply temperature.

The averages of the values computed for the generic annualized reporting computed for this case are:

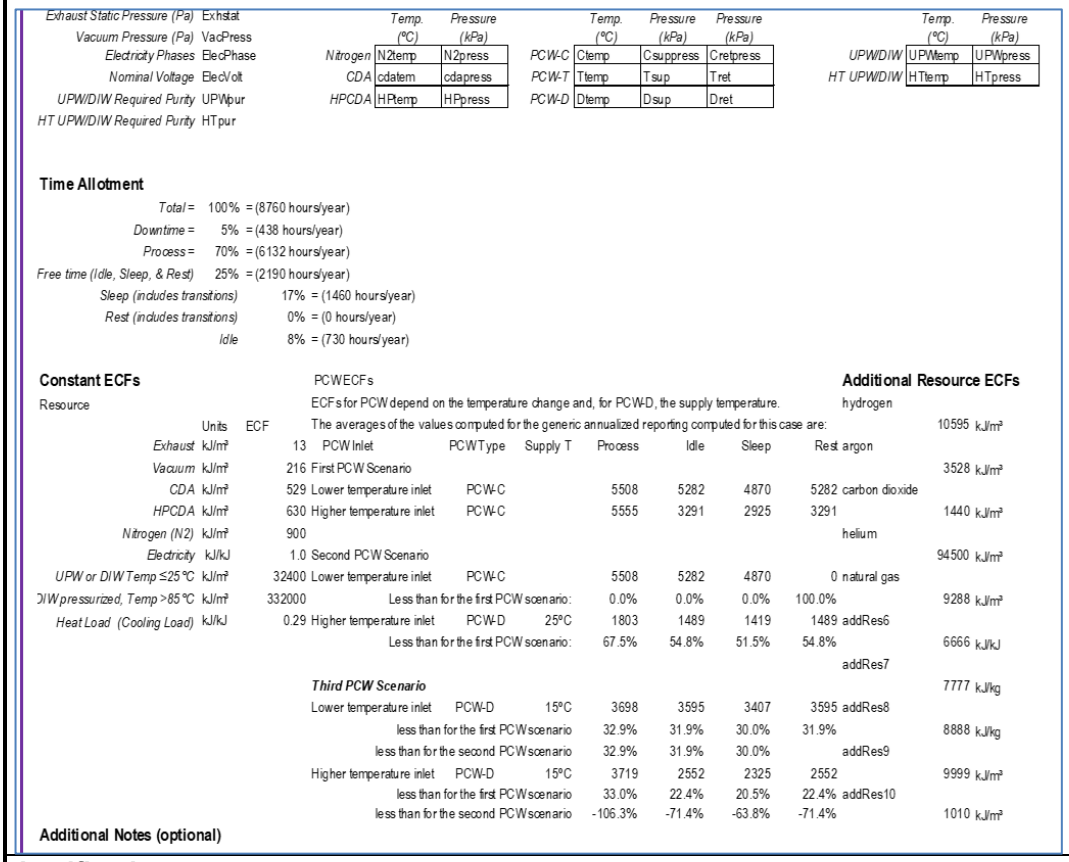
PCW Inlet	PCW Type	Supply T	Process	Idle	Sleep	Rest
First PCW Scenario						
Lower temperature inlet	PCW-C		5508	5282	4870	5282
Higher temperature inlet	PCW-C		5555	3291	2925	3291
Second PCW Scenario						
Lower temperature inlet	PCW-C		5508	5282	4870	0
Less than for the first PCW scenario:			0.0%	0.0%	0.0%	100.0%
Higher temperature inlet	PCW-D	25°C	1803	1489	1419	1489
Less than for the first PCW scenario:			67.5%	54.8%	51.5%	54.8%
Third PCW Scenario						
Lower temperature inlet	PCW-D	15°C	3698	3595	3407	3595
less than for the first PCW scenario			32.9%	31.9%	30.0%	31.9%
less than for the second PCW scenario			32.9%	31.9%	30.0%	
Higher temperature inlet	PCW-D	15°C	3719	2552	2325	2552
less than for the first PCW scenario			33.0%	22.4%	20.5%	22.4%
less than for the second PCW scenario			-106.3%	-71.4%	-63.8%	-71.4%

Additional Resource ECFs

hydrogen	10595	kJ/m³
argon	3528	kJ/m³
carbon dioxide	1440	kJ/m³
helium	94500	kJ/m³
natural gas	9288	kJ/m³
addRes6	6666	kJ/kJ
addRes7	7777	kJ/kg
addRes8	8888	kJ/kg
addRes9	9999	kJ/m³
addRes10	1010	kJ/m³

Additional Notes (optional)

TO:
Figure A2-2 Recommended Format for Annualized Reporting, Page 2 of 3



		Temp. (°C)	Pressure (kPa)
Nitrogen	N2temp		N2press
CDA	cdatemp		cdapress
HPCDA	HPtemp		HPpress

		Temp. (°C)	Pressure (kPa)	Pressure (kPa)
PCW-C	Ctemp		Csuppress	Cretpress
PCW-T	Ttemp		Tsup	Tret
PCW-D	Dtemp		Dsup	Dret

		Temp. (°C)	Pressure (kPa)
UPW/DIW	UPWtemp		UPWpress
HT UPW/DIW	HTtemp		HTpress

Exhaust Static Pressure (Pa) Exhstat
Vacuum Pressure (Pa) VacPress
Electricity Phases ElecPhase
Nominal Voltage ElecVolt
UPW/DIW Required Purity UPWpur
HT UPW/DIW Required Purity HTpur

Time Allotment

Total =	100%	= (8760 hours/year)
Downtime =	5%	= (438 hours/year)
Process =	70%	= (6132 hours/year)
Free time (Idle, Sleep, & Rest)	25%	= (2190 hours/year)
Sleep (includes transitions)	17%	= (1460 hours/year)
Rest (includes transitions)	0%	= (0 hours/year)
Idle	8%	= (730 hours/year)

Constant ECFs

Resource	Units	ECF
Exhaust	kJ/m³	13
Vacuum	kJ/m³	216
CDA	kJ/m³	529
HPCDA	kJ/m³	630
Nitrogen (N2)	kJ/m³	900
Electricity	kJ/kJ	1.0
UPW or DIW Temp ≤25 °C	kJ/m³	32400
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Heat Load (Cooling Load)	kJ/kJ	0.29

PCW ECFs

ECFs for PCW depend on the temperature change and, for PCW-D, the supply temperature.
The averages of the values computed for the generic annualized reporting computed for this case are:

PCW Inlet	PCW Type	Supply T	Process	Idle	Sleep	Rest
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Lower temperature inlet	PCW-C		5508	5282	4870	0
Less than for the first PCW scenario:			0.0%	0.0%	0.0%	100.0%
Higher temperature inlet	PCW-D	25°C	1803	1489	1419	1489
Less than for the first PCW scenario:			67.5%	54.8%	51.5%	54.8%
Third PCW Scenario						
Lower temperature inlet	PCW-D	15°C	3698	3595	3407	3595
less than for the first PCW scenario			32.9%	31.9%	30.0%	31.9%
less than for the second PCW scenario			32.9%	31.9%	30.0%	
Higher temperature inlet	PCW-D	15°C	3719	2552	2325	2552
less than for the first PCW scenario			33.0%	22.4%	20.5%	22.4%
less than for the second PCW scenario			-106.3%	-71.4%	-63.8%	-71.4%

Additional Resource ECFs

hydrogen	10595	kJ/m³
argon	3528	kJ/m³
carbon dioxide	1440	kJ/m³
helium	94500	kJ/m³
natural gas	9288	kJ/m³
addRes6	6666	kJ/kJ
addRes7	7777	kJ/kg
addRes8	8888	kJ/kg
addRes9	9999	kJ/m³
addRes10	1010	kJ/m³

Additional Notes (optional)

Justification:
Formatting error. Removing Vertical Cell Margin highlighted in yellow.

Origin of this editorial change (Check one)		
	x	Commenter 2 / Comment #1
		Other [ ]

FROM: Figure A2-2 Recommended Format for Annualized Reporting, Page 2 of 3 (partial view)

3

Third PCW Scenario								7777 kJ/kg
Lower temperature inlet	PCW-D	15°C	3698	3595	3407	3595	addRes8	
less than for the first PCW scenario			32.9%	31.9%	30.0%	31.9%		8888 kJ/kg
less than for the second PCW scenario			32.9%	31.9%	30.0%		addRes9	
Higher temperature inlet	PCW-D	15°C	3719	2552	2325	2552		9999 kJ/m³
less than for the first PCW scenario			33.0%	22.4%	20.5%	22.4%	addRes10	
less than for the second PCW scenario			-106.3%	-71.4%	-63.8%	-71.4%		1010 kJ/m³

Additional Notes (optional)

Additional Notes Text
Four score and seven years ago our fathers brought forth on this continent a new nation, conceived in Liberty, and dedicated to the proposition that all men are created equal.

Now we are engaged in a great civil war, testing whether that nation or any nation so conceived and so dedicated, can long endure. We are met on a great battle-field of that war. We have come to dedicate a portion of that field, as a final resting place for those who here gave their lives that that nation might live. It is altogether fitting and proper that we should do this.

But, in a larger sense, we can not dedicate—we can not consecrate—we can not hallow—this ground. The brave men, living and dead, who struggled here, have consecrated it, far above our poor power to add or detract. The world will little note, nor long remember what we say here, but it can never forget what they did here. It is for us the living, rather, to be dedicated here to the unfinished work which they who fought here have thus far so nobly advanced. It is rather for us to be here dedicated to the great task remaining before us—that from these honored dead we take increased devotion to that cause for which they gave the last full measure of devotion—that we here highly resolve that these dead shall not have died in vain—that this nation, under God, shall have a new birth of freedom—and that government of the people, by the people, for the people, shall not perish from the earth.

TO: Figure A2-2 Recommended Format for Annualized Reporting, Page 2 of 3 (Partial view)

Third PCW Scenario							7777	kJ/kg
Lower temperature inlet	PCW-D	15°C	3698	3595	3407	3595	addRes8	
less than for the first PCW scenario			32.9%	31.9%	30.0%	31.9%	8888	kJ/kg
less than for the second PCW scenario			32.9%	31.9%	30.0%		addRes9	
Higher temperature inlet	PCW-D	15°C	3719	2552	2325	2552	9999	kJ/m³
less than for the first PCW scenario			33.0%	22.4%	20.5%	22.4%	addRes10	
less than for the second PCW scenario			-106.3%	-71.4%	-63.8%	-71.4%	1010	kJ/m³

Additional Notes (optional)

Put any additional notes here such as further details about the test location, or equipment under test, or test conditions.

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Justification: (If necessary)
Editorial. Removing Gettysburg Address with dummy texts.

Motion	To approve the above editorial change(s).
Motion by/ 2nd by	By: Lauren Crane / TEL Second: Eric Sklar / Safety Guru, LLC
Discussion	None
Vote	15 **Y**-0 **N**; Motion passed.

4

Origin of this editorial change **(Check one)**		
		Commenter(s) / Comment(s) #
	x	Other [ ]

FROM: Accompanied ballot Complementary files

6515_Generic_05mar21a.xlsx

6515_LocSpec_05mar21.xlsx

	TO:  6515_Generic_29april21a.xlsx  6515_LocSpec_29april21a.xlsx
	Justification: (If necessary) Editorial. To provide, as Supplementary Materials, four Excel workbooks (the two revised above and the two from the set that accompanied the ballot).These are to replace the Supplementary Material that was provided for the previous version of S23-1216.
Motion	To approve the above editorial change(s).
Motion by/ 2nd by	By: Lauren Crane / TEL Second: Eric Sklar / Safety Guru, LLC
Discussion	None
Vote	16 **Y**-0 **N**; Motion passed.

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	=	46	/	46	=	100.0%	≥90%

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

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

[X] **Globally Approved (No Ratification Ballot needed):**
Line Item 1 meets the Letter Ballot approval conditions for the global technical committee.

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

Checks for Entire Document Including All Approved Line Items

VIII. Safety Check

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

Motion		
	x	**This is not a Safety Document**, when all safety-related information is removed, the Document is still technically sound and complete. (*Regulations* ¶ 8.7.1)
		This is a Safety Document, when all safety-related information is removed, the Document is not technically sound and complete. (*Regulations* ¶ 8.7.2)
		Safety Checklist (*Regulations* ¶ 15.3) is complete and has been included with the Document throughout the balloting process. (*Regulations* ¶ 15.1.2)
Motion by/2nd by		By: Lauren Crane / TEL Second: Eric Sklar / Safety Guru, LLC
Discussion		None
Vote		16 **Y**-0 **N**; Motion passed.

IX. Intellectual Property (IP) Check

Note: This Letter Ballot may cover all or part of a Standard or Safety Guideline. Regardless of the coverage, this IP check applies to the entire Standard or Safety Guideline including all the approved Line Items*. See *Regulations* § 16 for further information.

x	The TC Chapter meeting chair asked those participating, if they were aware of any patented technology that might be relevant (see *Regulations* ¶ 16.3.1.1) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see *Regulations* ¶ 16.4.1.2) in the Standard or Safety Guideline. (Also see, *Regulations* § 8.8)					
	x	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.**			
		The question is answered in affirmative	Is any of the known IPs a patented technology?		**Yes, at least one of them is a patented technology**	**GO TO IX (a) "Patented Technology" subsection**
					No	**GO TO IX (b) "Copyright items" subsection**

X. Action for This Document

Motion (Check all applicable items)		
		Line item(s) [X], [X] and [X] passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
	x	Line item(s) [1] passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
		Line item(s) [X], [X] and [X] 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.
		Line item(s) [X], [X] and [X] failed TC Chapter review and will be returned to the TF for rework.

		Line item(s) [X], [X] and [X] failed TC Chapter review and work will be discontinued.
Motion by/ 2nd by	By: Lauren Crane / TEL Second: Eric Sklar / Safety Guru, LLC	
Discussion	XXXX	
Vote	15 **Y**-0 **N**	
Final Action	x	Motion passed
		Motion failed

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