0 SC 0 P L # I-11	C/FM SCFM P1 L10 # [-1	_				
ytum, Michael Retired, Retired/Unemployed	Grow, Robert RMG Consulting					
mment Type TR Comment Status D	Comment Type E Comment Status A					
There are various classes of insulation used in IEC 62368-1:2018. These are basic, double, functional, reinforced, solid or supplementary. Functional insulation and the treatment thereof is uniquely handled by IEC 62368-1 in clause B.4.4 Functional insulation	We now have 9 approved amendments and this is the only project in SA ballot. I be this could now be safely labled Amendment 10	lieve				
ggestedRemedy	SuggestedRemedy					
Add functional insulation definition from IEC 62368-1:2018	Conditional on Mr. Law assigning the number, change "Amendment" to "Amendmen If done, also add amendment number to p. 9, I. 3. and p. 11, Line 30 (Amendment 1					
functional insulation: insulation between conductive parts which is necessary only for the proper functioning of the equipment NOTE: In IEEE 802.3 isolation is synonymous to functional insulation	Response Response Status C ACCEPT.	.,.				
posed Response Response Status Z	C/FM SC FM P1 L23 # [-2					
REJECT.	Grow, Robert RMG Consulting					
This comment was WITHDRAWN by the commenter.	Comment Type E Comment Status A					
0 SC 0 P L # [-19	Both P802.3ch and P802.3ca are now approved. Though neither was approved with amendment number, the list of previous amendments in approved draft P802.3ca/D includes IEEE Std 802.3ch-20xx.					
ytum, Michael Retired, Retired/Unemployed	SuggestedRemedy					
mment Type TR Comment Status R	Change "and IEEE Std 802.3cm-2020." to "IEEE Std 802.3cm-2020, IEEE Std 802.3	8ch-				
IEEE 802.3cg, 146.3.5 PCS Loopback, simply says "Additionally, the PHY receive circuitry	20xx, and IEEE Std 802.3ca-20xx."					
shall be isolated from the network medium". For PoDL, IEEE Std 802.3-2018 has clause 104.6.1 Isolation. Clause states:	Response Response Status C					
"In order to prevent the formation of a ground loop, a PD shall provide at least 1 M Ω DC	ACCEPT IN PRINCIPLE.					
isolation between all accessible external conductors, including frame ground (if any), and all MDI leads, when measured using at least a 5V source voltage. Any equipment that can be connected to a PD through a non-MDI connector that is not isolated from the MDI leads	Change "and IEEE Std 802.3cm-2020." to "IEEE Std 802.3cm-2020, IEEE Std 802.3ch- 2020, and IEEE Std 802.3ca-2020."					
must provide isolation between all accessible external conductors, including frame ground (if any), and the non-MDI connector, so as not to negate the DC isolation provided by the	C/FM SC FM P1 L23 # 1-4					
PD."	Anslow, Peter Self					
For IEEE 802.3cg 10BASE-T1L can run up to 1 km and is highly likely to pick up transient	Comment Type E Comment Status A					
	There are now 9 approved amendments.					
voltages of many kV. Further the PSE may be earthed with powering voltages up to ± 60 V. This makes the 5 V insulation resistance measurement inadequate and it is more						
voltages of many kV. Further the PSE may be earthed with powering voltages up to ± 60 V. This makes the 5 V insulation resistance measurement inadequate and it is more appropriate to use the standard 2-pair and 4 pair isolation requirements.	SuggestedRemedy					
voltages of many kV. Further the PSE may be earthed with powering voltages up to ±60 V. This makes the 5 V insulation resistance measurement inadequate and it is more appropriate to use the standard 2-pair and 4 pair isolation requirements. ggestedRemedy	Change "and IEEE Std 802.3cm-2020." to "IEEE Std 802.3cm-2020, IEEE Std 802.3	8ch-				
voltages of many kV. Further the PSE may be earthed with powering voltages up to ±60 V. This makes the 5 V insulation resistance measurement inadequate and it is more appropriate to use the standard 2-pair and 4 pair isolation requirements. ggestedRemedy For IEEE 802.3 clause 104.6.1 Isolation add.	Change "and IEEE Std 802.3cm-2020." to "IEEE Std 802.3cm-2020, IEEE Std 802.3 2020, and IEEE Std 802.3ca-2020."	Sch-				
voltages of many kV. Further the PSE may be earthed with powering voltages up to ±60 V. This makes the 5 V insulation resistance measurement inadequate and it is more appropriate to use the standard 2-pair and 4 pair isolation requirements. ggestedRemedy	Change "and IEEE Std 802.3cm-2020." to "IEEE Std 802.3cm-2020, IEEE Std 802.3	3ch-				

Pa **1** Li **23**

C/ 0	SC 0	P 2	L 4	# I-10	C/ FM	SC FM	P 7	L15	# I-5
	<i>Type</i> TR ords: Ethernet; IE	Comment Status D C 60950; IEC 62368; Isolatic			Anslow, P <i>Comment</i> Pleas	Type E	Self <i>Comment Status</i> A ist of Working Group ballot me	mbers.	
discor consis	nnect device and	r uses isolation in the context Touch current from coaxial c citors). IEC 62368-1 uses the tion".	ables (galvanic is	olation, which usually	•	ate the list of W	orking Group ballot members.		
Suggestee Add th		al insulation" to key words			Response ACCE		Response Status C		
	Response	Response Status Z			C/ FM Wienckow	SC FM vski, Natalie	P11 General Moto	L 19 rs Company	# I-21
This c	comment was WI	THDRAWN by the commente	er.		Comment 802.3	51	Comment Status A ed by the standards board.		
CI 0	SC O	P 2	L 5	# -46	Suggester Chan	dRemedy ge 20xx to 2020			
Comment		Wurth Elektro Comment Status A capitalized whereas the next		ot	Response ACCE		Response Status C		
Suggeste			nord baloty lor		C/ FM	SC FM	<i>P</i> 11	L 21	# 1-20
00	ge "Isolation" with	"isolation".			Wienckow	vski, Natalie	General Moto	rs Company	
Response ACCE		Response Status C				<i>Type</i> E ge to match upo	Comment Status A date made to ch description for	publication.	
C/ FM Grow, Rot	SC FM	P 7 RMG Consult	L 7	# I-3		•	and Annex 149A ex 149A		
Comment	Туре Е	Comment Status A	ing ing	EZ	Response ACCE		Response Status C		
Suggestee Pleas	2	list of those that voted.			C/ FM	SC FM	<i>P</i> 11	L 26	# -22
Response ACCE	9 EPT IN PRINCIPL	Response Status C E.			Comment	/ski, Natalie <i>Type</i> E ca was approve	General Moto <i>Comment Status</i> A ed by the standards board.	rs Company	
	Populate with Working Group members as detailed in the remedy for comment I-5. The remedy for comment I-5 is "Populate the list of Working Group ballot members."				Suggester Chang	dRemedy ge 20xx to 2020)		
					Response ACCE		Response Status C		
COMMEN		ed ER/editorial required GR/ spatched A/accepted R/reje	• •		0	d U/unsatisfied	Pa 11 Z/withdrawn Li 26		Page 2 of 11 8/30/2020 3:07:42 PM

Bustos Heredia, Jairo Wurth Elektronik eiSos Comment Type E Comment Status A "Electrical" is capitalized. The same occurrency on page 121 line 13. SuggestedRemedy Change "Electrical" with "electrical". Response Response Status C ACCEPT. C/ 1 SC 1.3 P23 L34 # I-23	# 1-45 C/ 8 SC 8.7.1 P24 L40	# I-24
Inconsistencies found throughout the draft when writing "Electrical isolation". 802.3-2018 has different text than that quoted in this draft. Inconsistencies have also been found in following pages and lines: 'Page 31 Line 7 (in Table 14.10.4.5.11) Page 45 Line 14 (in Table 40.12.7) Page 115 Line 14 Response Status C Change "Electrical isolation" with "Electrical isolation". Response Status C ACCEPT. ACCEPT. 20 SC 0 P22 L12 # [=48] 20 SC 10 P22 L12 # [=48] 20 SC 0 P25 L13 # [=16] 20 SC 10 P22 L12 # [=48] 20 SC 10 P22 L12 # [=48] 20 SC 20 P25 L13 # [=16] 20 SC 20 P25 L13 # [=16] 20 SC 10 P23 L34 # [=23] 20 SC 13 Brack different text than that quoted in this draft. It has the text as not 802.3x01 has different text than that quoted in this draft. It has the text as not 802.3x01 has different text than that quoted in this draft. It has the text as not 802.3x01 has different text than that quoted in this draft. It has the text as	Wienckowski, Natalie General Motors Company	
Inconsistencies have also been found in following pages and lines: Page 31 Line 7 (in Table 14.10.4.5.11) SuggestedRemedy Page 19 Line 14 (in Table 40.12.7) Page 19 Line 14 (in Table 40.12.7) Page 19 Line 14 (in Table 40.12.7) Page 19 Line 14 ViggestedRemedy Change "Electrical Isolation" with "Electrical isolation". ACCEPT. Change * All Physical Layer MDI meeting this standard" to "ACCEPT IN PRINCIPLE. ViggestedRemedy Change * Comment Status A * Electrical" is capitalized. The same occurrency on page 121 line 13. Maytum, Michael Retired.Retired/Unemployed Comment Type E Comment Status A "Isolation impedance between", but J1 doesn't mention impedance ViggestedRemedy Change * Electrical" with "electrical". SuggestedRemedy Change * Electrical is loation * Carter IN PRINCIPLE. Comment Type TR Comment Status A * Solation impedance between", but J1 doesn't mention impedance SuggestedRemedy Comment Type TR Comment Status A * CePT. ************************************	Comment Type E Comment Status A	
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Response Response Status C ACCEPT. Change "All Physical Layer MDI meeting this standard" to " <all stations=""> is strikethrough text and <all layer="" mdi="" physical="">> meeting this standard" Where <all stations=""> is strikethrough text and <all layer="" mdi="" physical="">> meeting this standard" to "<all stations=""> is strikethrough text and <all layer="" mdi="" physical="">> meeting this standard" to "<all stations=""> is strikethrough text and <all layer="" mdi="" physical="">> meeting this standard" to "<all stations=""> is strikethrough text and <all layer="" mdi="" physical="">> meeting this standard" to "<all stations=""> is strikethrough text and <all layer="" mdi="" physical="">> meeting this standard" to "<all stations=""> is strikethrough text and <all layer="" mdi="" physical="">> meeting this standard" to "<all stations=""> is strikethrough text and <all layer="" mdi="" physical="">> meeting this standard" to "<all stations=""> is strikethrough text and <all layer="" mdi="" physical="">> meeting this standard" to "<all stations=""> is strikethrough text and <all layer="" mdi="" physical="">> meeting this standard" to "<all stations=""> is strikethrough text and <all layer="" mdi="" physical="">> meeting this standard" Change "Electrical" with 'electrical". Maytum, Michael Retired, Retired/Unemployed Comment Type E Comment Status A "Isolation impedance" Suggested/Remedy Correct Type E Comment Status A "Isolation impedance" Maxtum, Michael General Motors Company Correct Type E Comment Status A "Isolation impedance Status A Suggested/Remedy Maxtum, Michael General Motors Company Correct Type E Com</all></all></all></all></all></all></all></all></all></all></all></all></all></all></all></all></all></all></all></all></all></all>	Response Response Status C	
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Change.	·	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Pa **30** Li 10 SORT ORDER: Page, Line

CI 27 SC 27.5.1	P37	L11	# I-26	C/ 0	SC 0	P39	L 40	# I-49
Vienckowski, Natalie	General Moto	rs Company		Bustos I	leredia, Jairo	Wurth Elektro	nik eiSos	
Comment Type E	Comment Status A			Comme	nt Type E	Comment Status A		
A new note is being	added. There is no existing not	te to change.				950-1. Not sure why there are s		
SuggestedRemedy				33.8	standard. Anothe .3.9), page 111 l	r reference has been found on ine 17,	page 41 line 9	and line 12 (Table
text being shown is	with "Insert". Also, remove unde the text to insert.	rlining as it is no	it needed as the onl	y Suggesi	edRemedy			
Response	Response Status C			Ren	ove reference to	IEC 60950-1.		
ACCEPT.	Response Status			Respon	e	Response Status C		
ACCELLT.					EPT IN PRINCI	PLE.		
C/ 33 SC 33.7.1	P39	L 39	# I-27					
Wienckowski, Natalie Comment Type E Not all new text is unde SuggestedRemedy	General Moto <i>Comment Status</i> A underlined. eral safety requirements as speci <i>Response Status</i> C			Cha "All sper Pow IEC to: "All sper Ann Ren	equipment subje- ified in J.2 or IEG er Source in acc 60950-11 or Ann equipment subje- ified in J.2. The ex Q of IEC 6236 hove footnote #1	ct to this clause shall conform t C 60950-1. In particular, the PS ordance with lex Q of IEC 62368-1:2018, as ct to this clause shall conform t PSE shall be classified as a Lir i8-1:2018, as applicable."	E shall be clas applicable." o the general s	sified as a Limited afety requirements as
				Cha "Acc	essible external	conductors are specified in Sec b) of IEC 62368-1:2018."	ction 6.2.1 b) o	EC 60950-1:200114
				to: "Ext 1:20		y to conductors is specified in S	Section 5.4.10.	l b) of IEC 62368-

Pa **39** Li **40**

CIO SCO	P 39	L 40	# I-47	C/ 38	SC 38.12.4.1	P 43	L 13	# I-30
Bustos Heredia, Jairo	Wurth Ele	ktronik eiSos		Wienckow	ski, Natalie	General M	otors Company	
Comment Type E	Comment Status A			Comment	Туре Е	Comment Status A		
	reference the foot note is mis	sing. Another inco	insistency has been	OR30	is in subclause 3	38.12.4.5. The title used in	n the draft is for 38.	12.4.5.
found on page 41	line 9.			Suggested	Remedy			
SuggestedRemedy				Chang	e 38.12.4.1 to 3	8.12.4.5.		
Insert superscript	to have: "IEC 60950-1^1".			Response		Response Status C		
Response	Response Status C			ACCE	PT IN PRINCIPL	_E.		
ACCEPT IN PRIN	ICIPLE.							
Page 39 Line 40:	Move superscript ^1^ to the fir	st instance of "IEC	C 60950-1".	Chang	e 38.12.4.1 to 3	8.12.4.5 in title and editors	instruction.	
Ū				C/ 40	SC 40.12.7	P 45	L 8	# <mark>I-31</mark>
Page 41 Line 9: 1	Move superscript ^1^ to the firs	t instance of "IEC	60950-1" in ES1	Wienckow	ski, Natalie	General M	otors Company	
CI 33 SC 33.8	8.3.4 P40	L10	# I-28	Comment	Type E	Comment Status A		
CI 33 SC 33.8 Nienckowski, Natalie		L10 lotors Company	# 1-28	Comment		Comment Status A include instruction to renul	mber the remaining	items in the table
			# <u>I-28</u>	Comment	s note needs to		nber the remaining	items in the table
Nienckowski, Natalie Comment Type E	General N	lotors Company		Comment Editor Suggested Update	s note needs to <i>Remedy</i> e editor's instruc		Ū	
Nienckowski, Natalie Comment Type E	General M Comment Status A	lotors Company		Comment Editor Suggested Update throug	s note needs to Remedy	include instruction to renur	Ū	
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Nienckowski, Natalie Comment Type E Editor's note need SuggestedRemedy Update editor's in EL13.	General M <i>Comment Status</i> A ds to include instruction to renu struction to add "and renumber	lotors Company	ng items in the table.	Comment Editor Suggested Update throug Response ACCE	Remedy e editor's instruc h PME61. PT. SC 55.5.1	tion to add "and renumber Response Status C	items PME6 throug	
Nienckowski, Natalie Comment Type E Editor's note need SuggestedRemedy Update editor's in EL13. Response ACCEPT.	General M Comment Status A ds to include instruction to renu struction to add "and renumber Response Status C	lotors Company mber the remainir r items EL6 throug	ng items in the table. gh EL19 to EL3 through	Comment Editor Suggested Update throug Response ACCE CI 55 Wienckow	s note needs to <i>Remedy</i> e editor's instruc h PME61. PT. SC 55.5.1 ski, Natalie	include instruction to renumber tion to add "and renumber <i>Response Status</i> C <i>P</i> 52 General M	items PME6 throug	gh PME64 to PME
Wienckowski, Natalie Comment Type E Editor's note need SuggestedRemedy Update editor's in EL13. Response ACCEPT. Cl 38 SC 38.7	General M Comment Status A ds to include instruction to renu struction to add "and renumber Response Status C 7.1 P42	lotors Company mber the remainin r items EL6 throug <i>L</i> 12	ng items in the table.	Comment Editor Suggested Update throug Response ACCE CI 55 Wienckow Comment	s note needs to IRemedy e editor's instruc h PME61. PT. SC 55.5.1 ski, Natalie Type E	include instruction to renumber tion to add "and renumber <i>Response Status</i> C <i>P</i> 52 General M <i>Comment Status</i> A	items PME6 throug <i>L</i> 9 otors Company	gh PME64 to PME
Nienckowski, Natalie Comment Type E Editor's note need SuggestedRemedy Update editor's in EL13. Response ACCEPT. C/ 38 SC 38.7 Nienckowski, Natalie	General M Comment Status A ds to include instruction to renu struction to add "and renumber Response Status C 7.1 P42 General M	lotors Company mber the remainir r items EL6 throug	ng items in the table. gh EL19 to EL3 through	Comment Editor Suggested Update throug Response ACCE CI 55 Wienckow Comment Refere	s note needs to <i>Remedy</i> e editor's instruct h PME61. PT. SC 55.5.1 ski, Natalie <i>Type</i> E enced ammendm	include instruction to renumber tion to add "and renumber <i>Response Status</i> C <i>P</i> 52 General M	items PME6 throug <i>L</i> 9 otors Company	gh PME64 to PME
Wienckowski, Natalie Comment Type E Editor's note need SuggestedRemedy Update editor's in EL13. Response ACCEPT. CI 38 SC 38.7 Nienckowski, Natalie Comment Type E	General M Comment Status A ds to include instruction to renu struction to add "and renumber Response Status C 7.1 P42 General M Comment Status A	lotors Company mber the remainin r items EL6 throug <i>L</i> 12	ng items in the table. gh EL19 to EL3 through	Comment Editor Suggested Update throug Response ACCE CI 55 Wienckow Comment Refere Suggested	Remedy e editor's instruct h PME61. PT. SC 55.5.1 ski, Natalie Type E enced ammendm IRemedy	tion to add "and renumber Response Status C P52 General M Comment Status A nent should be in parenthe	items PME6 throug <i>L</i> 9 otors Company sis.	gh PME64 to PME
Wienckowski, Natalie Comment Type E Editor's note need SuggestedRemedy Update editor's in EL13. Response ACCEPT. C/ 38 SC 38.7 Nienckowski, Natalie Comment Type E Not all new text is	General M Comment Status A ds to include instruction to renu struction to add "and renumber Response Status C 7.1 P42 General M Comment Status A	lotors Company mber the remainin r items EL6 throug <i>L</i> 12	ng items in the table. gh EL19 to EL3 through	Comment Editor Suggested Update throug Response ACCE CI 55 Wienckow Comment Refere Suggested Put thi	s note needs to <i>Remedy</i> e editor's instruct h PME61. PT. <i>SC</i> 55.5.1 ski, Natalie <i>Type</i> E enced ammendm <i>Remedy</i> s text in parenth	include instruction to renumber tion to add "and renumber <i>Response Status</i> C <i>P</i> 52 General M <i>Comment Status</i> A	items PME6 throug <i>L</i> 9 otors Company sis.	gh PME64 to PME
Wienckowski, Natalie Comment Type E Editor's note need SuggestedRemedy Update editor's in EL13. Response ACCEPT. C/ 38 SC 38.7 Nienckowski, Natalie Comment Type E Not all new text is SuggestedRemedy	General M Comment Status A ds to include instruction to renu struction to add "and renumber Response Status C 7.1 P42 General M Comment Status A s underlined.	lotors Company mber the remainin r items EL6 throug <i>L</i> 12	ng items in the table. gh EL19 to EL3 through	Comment Editor Suggested Update throug Response ACCE CI 55 Wienckow Comment Refere Suggested Put thi Response	s note needs to <i>Remedy</i> e editor's instruct h PME61. PT. <i>SC</i> 55.5.1 ski, Natalie <i>Type</i> E enced ammendm <i>Remedy</i> s text in parenth	tion to add "and renumber Response Status C P52 General M Comment Status A nent should be in parenthe	items PME6 throug <i>L</i> 9 otors Company sis.	gh PME64 to PME
Wienckowski, Natalie Comment Type E Editor's note need SuggestedRemedy Update editor's in EL13. Response ACCEPT. C/ 38 SC 38.7 Nienckowski, Natalie Comment Type E Not all new text is	General M Comment Status A ds to include instruction to renu struction to add "and renumber Response Status C 7.1 P42 General M Comment Status A s underlined.	lotors Company mber the remainin r items EL6 throug <i>L</i> 12	ng items in the table. gh EL19 to EL3 through	Comment Editor Suggested Update throug Response ACCE CI 55 Wienckow Comment Refere Suggested Put thi	s note needs to <i>Remedy</i> e editor's instruct h PME61. PT. <i>SC</i> 55.5.1 ski, Natalie <i>Type</i> E enced ammendm <i>Remedy</i> s text in parenth	include instruction to renumber tion to add "and renumber <i>Response Status</i> C <i>P</i> 52 General M <i>Comment Status</i> A nent should be in parenthe esis: as modified by IEEE	items PME6 throug <i>L</i> 9 otors Company sis.	gh PME64 to PME
Wienckowski, Natalie Comment Type E Editor's note need SuggestedRemedy Update editor's in EL13. Response ACCEPT. C/ 38 SC 38.7 Nienckowski, Natalie Comment Type E Not all new text is SuggestedRemedy	General M Comment Status A ds to include instruction to renu struction to add "and renumber Response Status C 7.1 P42 General M Comment Status A s underlined.	lotors Company mber the remainin r items EL6 throug <i>L</i> 12	ng items in the table. gh EL19 to EL3 through	Comment Editor Suggested Update throug Response ACCE CI 55 Wienckow Comment Refere Suggested Put thi Response	s note needs to <i>Remedy</i> e editor's instruct h PME61. PT. <i>SC</i> 55.5.1 ski, Natalie <i>Type</i> E enced ammendm <i>Remedy</i> s text in parenth	include instruction to renumber tion to add "and renumber <i>Response Status</i> C <i>P</i> 52 General M <i>Comment Status</i> A nent should be in parenthe esis: as modified by IEEE	items PME6 throug <i>L</i> 9 otors Company sis.	gh PME64 to PME

Pa **52** Li **9**

55	SC 55.9.1	P 52	L 33	# I-33	C/ 71	SC 71.9.1	P6	1 <i>L</i> 1	1	# <u>I-36</u>
Vienckowsk	ki, Natalie	General Motor	s Company		Wienckow	/ski, Natalie	Gener	ral Motors Comp	any	
Comment Ty	ype E	Comment Status A			Comment	Туре Т	Comment Status			
Not all r	new text is unde	rlined.					s well since the origin	al text included "	including is	olation
SuggestedR	Remedy				requir	ements".				
••	•	al safety requirements as spe	ecified in"		Suggeste	dRemedy				
Response	_	Response Status C				he following text a hange PICS ES1	after "conform to the": to match.	isolate requirem	ients as spe	ecified in J.1 and
ACCEP	Т.				Response	9	Response Status	С		
C/ 55	SC 55.12.6	P 53	L 7	# -34	ACCE	EPT IN PRINCIPI	_E.			
lienckowsk	ki, Natalie	General Motor	s Company		Repla	ice the text on pa	ge 61 line 11 with:			
Comment Type E Comment Status A Editor's note needs to include instruction to renumber the remaining items in the table.						quipment that me rements of Annex	ets the requirements	of this standard	shall confor	m to the applicable
	-	ditor's instruction "and renum	ber all of the ite	ms in the table	chang	ge PICS ES1 to n	natch			
accordir	ngly.				CI 72	SC 72.9.1	P6:	3 <i>L</i> 1	1	# 1-37
Response		Response Status C			Wienckow	/ski, Natalie	Gener	ral Motors Comp	anv	
ACCEP	Т.				Comment	,	Comment Status	•	uny	
C/ 70	SC 70.9.1	P60	L11	# 1-35		eference to J.1 as	s well since the origin	al text included "	including is	olation
Vienckowsk		General Motor	s Company		Suggeste	dRemedy				
	erence to J.1 as	Comment Status A well since the original text in	cluded "includir	g isolation	Add the following text after "conform to the": isolate requirements as specified in J.1 and Add change PICS ES1 to match.					
requiren					Response)	Response Status	с		
uggestedR	-				ACCE	EPT IN PRINCIPI	_E.			
	ange PICS ES1	fter "conform to the": isolate to match.	requirements as	s specified in J.1 and	Repla	ice the text on pa	ge 63 line 11 with:			
lesponse		Response Status C			"^!! ~	winment that ma	oto the requirements	of this standard	aball confor	m to the applicable
ACCEP	T IN PRINCIPL	Ε.				ements of Annex	ets the requirements	or this standard	Shall Conior	m to the applicable
Replace	e the text on pag	e 60 line 11 with:			chang	ge PICS ES1 to n	natch			
	ipment that meen nents of Annex	ets the requirements of this s J."	tandard shall co	onform to the applicable						
	PICS ES1 to m	atch								
cnange										

Pa **63** Li 11

CI 84	SC 84.10.1	P 67	L11	#	I-38	C/ 94	SC 94.5.1		P 79	L11	# I-40
Wienckowski	i, Natalie	General Moto	ors Company			Wienckow	ski, Natalie	G	eneral Moto	ors Company	
Comment Ty	vpe T	Comment Status A				Comment	Туре Т	Comment Sta	tus A		
Add refei requirem		well since the original text in	ncluded "includir	ng isolatio	n		eference to J.1 a ements".	s well since the o	iginal text ir	ncluded "includir	ng isolation
SuggestedRe	emedy					Suggestee	dRemedy				
	following text a nge PICS ES1	fter "conform to the": isolatic to match.	on requirements	as specifi	ed in J.1 and		he following text hange PICS ES		he": isolatio	on requirements	as specified in J.1 and
Response		Response Status C				Response		Response Sta	tus C		
ACCEPT	IN PRINCIPL	E.				ACCE	PT IN PRINCIP	LE.			
Replace	the text on page	ge 67 line 11 with:				Repla	ce the text on pa	age 79 line 11 with	:		
	pment that menter of Annex	ets the requirements of this s J."	standard shall co	onform to	the applicable		quipment that me ements of Anne		ents of this s	standard shall co	onform to the applicable
change F	PICS ES1 to m	atch				chang	e PICS ES1 to r	natch			
C/ 93	SC 93.10.1	P 77	L11	#	1-39	C/ 138	SC 138		P 103	L 1	# I-6
Wienckowski	i, Natalie	General Moto	ors Company			Anslow, P	eter	S	elf		
Comment Ty	vpe T	Comment Status A				Comment	Туре Е	Comment Sta	tus A		
Add refer requirem		well since the original text in	ncluded "includir	ng isolatio	n	Clause 138 was added by IEEE Std 802.3cd-2018. Clause 138 was modified by IEEE Sto 802.3cn-2019, but none of the changes made affect the changes being made here. Claus					
SuggestedRe	emedy					138 w	as also modified	d by IEEE Std 802	.3cm-2020,	which changed	the title of the clause.
Add the f	following text a	fter "conform to the": isolatic	on requirements	as specifi	ed in J.1 and	SuggestedRemedy					
Add char	nge PICS ES1	to match.				At the top of Page 103 change "Clause 138 was added by IEEE Std 802.3cn-2019" to "Clause 138 was added by IEEE Std 802.3cd-2018 and changed by IEEE Std 802.3cm-					
Response		Response Status C									38.11.4 to reflect the
ACCEPT	IN PRINCIPL	Ε.						E Std 802.3cm-20			
Replace	the text on page	ge 77 line 11 with:				Response ACCE		Response Sta	tus C		
	pment that meneric that meneric of Annex	ets the requirements of this s J."	standard shall co	onform to	the applicable	//001					

Pa **103** Li **1**

C/ 139 SC 139	P105	L1	# 1-7	C/ Annex J SC ex J	P 119	L16	# 1-44	
Anslow, Peter	Self			Wiese, James	ADTRAN Inc.			
Comment Type E	Comment Status A			Comment Type T	Comment Status A			
	Ided by IEEE Std 802.3cd-2018. ch changed the title of the clause		s modified by IEEE Std		d with the file Wiese_comment.pdf;IEEE_P	802d3cr_Jim_W	iese_suggested_chang	
SuggestedRemedy				e.pdf attached ***				
	105 change "Clause 139 was ad dded by IEEE Std 802.3cd-2018				ocument <ieee_p802d3cr_j< td=""><td>im_Wiese_com</td><td>nent.pdf> for rationale.</td></ieee_p802d3cr_j<>	im_Wiese_com	nent.pdf> for rationale.	
2019" Change the	title of Clause 139 and the titles			SuggestedRemedy				
changes made by I	IEEE Std 802.3cn-2019.			Please see attached d suggested change.	ocument <ieee_p802d3cr_j< td=""><td>im_Wiese_sugg</td><td>ested_change.pdf> for</td></ieee_p802d3cr_j<>	im_Wiese_sugg	ested_change.pdf> for	
Response	Response Status C							
ACCEPT.				Response	Response Status C			
C/ 140 SC 140	P107	L1	# 1-8	ACCEPT IN PRINCIPI	LE.			
			"	Replace Annex J text	with the following:			
Anslow, Peter Comment Type E	Self Comment Status A			"Appendia				
				"Annex J (normative)				
	Ided by IEEE Std 802.3cd-2018. none of the changes made affec			Electrical isolation and	l general safety			
SuggestedRemedy				The requirements spec	cified in this Annex are to be u	used in conjunct	on with the	
	107 change "Clause 140 was ad dded by IEEE Std 802.3cd-2018		td 802.3cn-2019" to		ause that specifies the interfac			
Response	Response Status C			J.1 Electrical Isolation				
ACCEPT.				Electrical isolation sha	Il withstand at least one of the	e following electr	ical isolation tests:	
C/ 141 SC 141	P109	L1	# [-9		z to 60 Hz. This test voltage	amplitude is rais	ed from zero to the	
Anslow, Peter	Self				I held at that value for 60 s. st voltage is raised from zero	to the properihed	hydrogo ond hold of	
Comment Type E	Comment Status A			that value for 60 s.	si vollage is raiseu ituill 2010	to the prescribed	i voltage and held at	
"Clause 141 was a 802.3ca-2020"	dded by IEEE P802.3ca" should	be "Clause 14"	I was added by IEEE Std	C) A sequence of ten 2 than 1 s. The shape of	2400 V impulses of alternating f the impulses is 1.2/50 (1.2 p	us virtual front tir	ne, 50 µs virtual time to	
SuggestedRemedy					duced by a 1.2/50-8/20 combi	ination wave ger	erator, as defined in	
	41 was added by IEEE P802.3ca	" to "Clause 14	1 was added by IEEE	Recommendation ITU-T K.44. There shall be no failure of the isolation barrier or insulation breakdown during the test. Failure of the isolation barrier or insulation breakdown is considered to have occurred whe				
Response Response Status C ACCEPT.				the current that flows a an uncontrolled manne of the current. Corona	as a result of the application of er; that is, the isolation barrier discharge is not regarded as at least 2 M Ω , measured at 50	f the test voltage or insulation do insulation break	e, rapidly increases in es not restrict the flow	
				of the IEC 60950-1 sta b. IEC 60950-1 has be	2018 and previous revisions p indards for guidance in perfor en withdrawn. References to	ming the isolatic IEC standards a	on test for options a and are not essential to	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Page 8 of 11 Pa 119 Li 16 8/30/2020 3:07:42 PM SORT ORDER: Page, Line

performing the isolation test specified in J.1. No technical change is implied by the removal

of these references.

J.2 General Safety

Cl

Equipment shall comply with all applicable local, state, national and application-specific standards, such as the applicable sections of IEC 62368-1:2018."

/ 0	SC 0	P 119	L18	# I-16
	000	/ 113	210	" 1-10

Maytum, Michael		Retired, Retired/Unemployed
Comment Type	т	Comment Status R

"a)1500 V rms at 50 Hz to 60 Hz, applied as specified in Section 5.4.9.1 of IEC 62368-1:2018." is not matching the IEC 62368-1:2018 requirement. Section 5.4.9.1 of IEC 62368-1:2018 states basic insulation is subjected to Table 12 impulse values and the highest test voltage from Table 25, 26 or 27, impulse values which, for 230 V mains, IEC 62368-1 tests with a 2500 V peak AC or DC voltage. IEC 62368-1:2018 totally ignors the IEC 60664-1:2020, Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests, recommendation that an impulse voltage, not AC or DC voltages, is most appropriate test approach for coupled transients.

SuggestedRemedy

Change AC voltage to "AC 2500 V peak at 50 Hz to 60 Hz" to match IEC 62368-1

Response Response Status C

REJECT.

The CRG disagrees with the commenter. The values in the current standard remain consistent with IEEE Std 802.3-2018 and modifying these may make existing equipment non-compliant.

C/ 0	SC O	<i>P</i> 119	L19	# I-17	
Maytum,	Michael	Retired, Retired/L	Inemployed		-

Comment Type T Comment Status R

"2250 V dc, applied as specified in Section 5.4.9.1 of IEC 62368-1:2018." is not matching the IEC 62368-1:2018 requirement. Section 5.4.9.1 of IEC 62368-1:2018 states basic insulation is subjected to Table 12 values and the highest test voltage from Table 25, 26 or 27, which for 230 V mains is 2.5 kV peak AC or DC voltage. IEC 62368-1:2018 totally ignors the IEC 60664-1:2020, Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests, recommendation that an impulse voltage, not AC or DC voltages, is most appropriate test approach for coupled transients.

SuggestedRemedy

Change DC voltage to "DC 2500 V" to match IEC 62368-1

Response Response Status C

REJECT.

The CRG disagrees with the commenter. The values in the current standard remain consistent with IEEE Std 802.3-2018 and modifying these may make existing equipment non-compliant.

CI 0	SC 0	P 119	L 20	#	I-18	
Mavtum.	Michael	Retired.Retired/	Unemploved			

Comment Type TR Comment Status R

"A sequence of ten 2400 V impulses of alternating polarity". There are two problems with this voltage level:

2400 V is not a preferred IEC voltage level - see IEC 60664-1:2020, Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests, which uses 2500 V. IEC 62368-1:2018 also has a preferred value of 2500 V. 2500 V is used in ITU-T K.20, K,21 and K.45 for Ethernet port testing along with other regional standards such as ATIS 0600012.05:2017, Electrical Protection for Ethernet Systems.

SuggestedRemedy

Harmonize by changing to "A sequence of ten 2500 V impulses of alternating polarity"

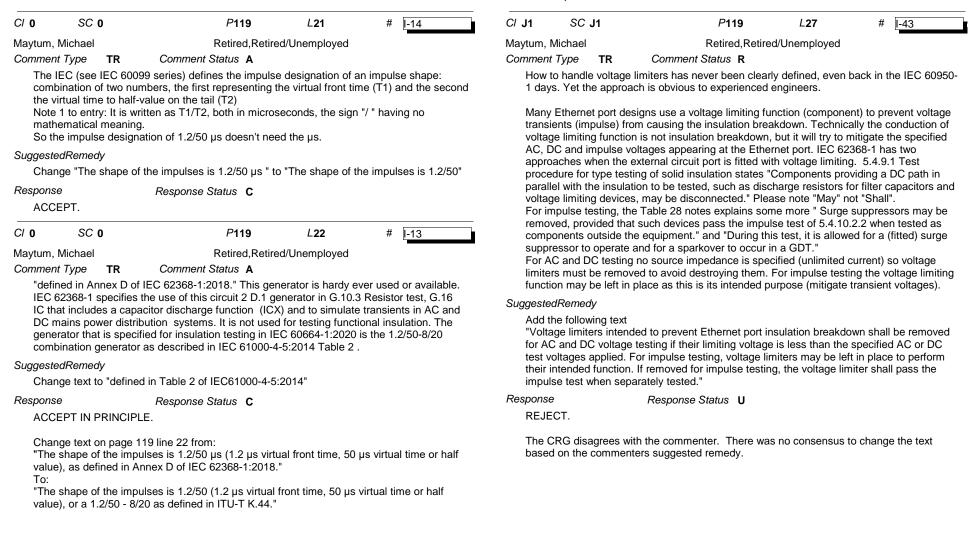
Response Status C

Response

REJECT.

The CRG disagrees with the commenter. The values in the current standard remain consistent with IEEE Std 802.3-2018 and modifying these may make existing equipment non-compliant.

Pa **119** Li **20** Page 9 of 11 8/30/2020 3:07:42 PM



Pa **119** Li **27**

2/ 0 SC 0 P119 L27 # 1-15	C/ 83B SC 83B.4.1 P124 L17 # 1-42
laytum, Michael Retired, Retired/Unemployed	Wienckowski, Natalie General Motors Company
omment Type TR Comment Status A	Comment Type T Comment Status A
A major omission in Annex J is the requirements of IEC 62368-1 clause B.4.4 Functional insulation. What this clause says is if any of the following items are NOT met then the isolation/functional insulation is shorted. These items are; clearance and creepage distance for basic insulation, clearance and creepage distance for basic insulation under pollution degree 1 or pollution degree 2 and electric strength test of 5.4.9.1 for basic insulation. Shorting the functional insulation shall not create an equipment safety hazard.	Add reference to J.1 as well since the original text included "including isolation requirements".
	SuggestedRemedy
	Add the following text after "conform to the": isolation requirements as specified in J.1 a Add change PICS ES1 to match.
uggestedRemedy	Response Response Status C
Add text to the effect "Should insulation breakdown occur in isolation testing IEC 62368- 1:2018 requires proof that an electrical hazard will not be created. IEC 62368-1:2018 B.4.4.	ACCEPT IN PRINCIPLE.
applies a short across the isolation followed by a measurents and observations for safety hazards."	Replace the text on page 124 line 17 with:
Pesponse Response Status C	"All equipment that meets the requirements of this standard shall conform to the applica requirements of Annex J."
ACCEPT IN PRINCIPLE.	change PICS ES1 to match
Change text of J.2 as follows: "Equipment shall comply with all applicable local, state, national and application-specific standards, such as the applicable sections of IEC 62368-1:2018."	Also replace the text on page 101 line 15 with: "All equipment that meets the requirements of this standard shall conform to the applica requirements of Annex J."
W 83A SC 83A.6.1 P122 L17 # 1-41	
/ienckowski, Natalie General Motors Company	change PICS ES1 to match
Comment Type T Comment Status A	
Add reference to J.1 as well since the original text included "including isolation requirements".	
uggestedRemedy	
Add the following text after "conform to the": isolation requirements as specified in J.1 and Add change PICS ES1 to match.	
Pesponse Response Status C	
ACCEPT IN PRINCIPLE.	
Replace the text on page 122 line 17 with:	
"All equipment that meets the requirements of this standard shall conform to the applicable requirements of Annex J."	
change PICS ES1 to match	

Pa **124** Li **17**