CI 0 SC 0 Ρ 1 C/ FM P1 # I-11 SC FM / 10 # I-1 Maytum, Michael **RMG** Consulting Retired, Retired/Unemployed Grow, Robert Comment Type TR Comment Status X Comment Type E Comment Status A F7 There are various classes of insulation used in IEC 62368-1:2018. These are basic, double. We now have 9 approved amendments and this is the only project in SA ballot. I believe this could now be safely labled Amendment 10 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 SuggestedRemedy SuggestedRemedy Conditional on Mr. Law assigning the number, change "Amendment" to "Amendment 10:". Add functional insulation definition from IEC 62368-1:2018 If done, also add amendment number to p. 9, I. 3. and p. 11, Line 30 (Amendment 10). functional insulation; insulation between conductive parts which is necessary only for the Response Response Status C proper functioning of the equipment ACCEPT. NOTE: In IEEE 802.3 isolation is synonymous to functional insulation Proposed Response Response Status W C/ FM SC FM P1 L23 **TFTD** Grow, Robert **RMG** Consulting CI 0 SC 0 Р L Comment Type E Comment Status A F7 # I-19 Both P802.3ch and P802.3ca are now approved. Though neither was approved with an Maytum, Michael Retired, Retired/Unemployed amendment number, the list of previous amendments in approved draft P802.3ca/D3.1 Comment Type TR Comment Status X includes IEEE Std 802.3ch-20xx. IEEE 802.3cg. 146.3.5 PCS Loopback, simply says "Additionally, the PHY receive circuitry SuggestedRemedy shall be isolated from the network medium". For PoDL, IEEE Std 802.3-2018 has clause Change "and IEEE Std 802.3cm-2020." to "IEEE Std 802.3cm-2020, IEEE Std 802.3ch-104.6.1 Isolation. Clause states: 20xx, and IEEE Std 802.3ca-20xx." "In order to prevent the formation of a ground loop, a PD shall provide at least 1 M $\Omega$  DC isolation between all accessible external conductors, including frame ground (if any), and Response Response Status C all MDI leads, when measured using at least a 5V source voltage. Any equipment that can ACCEPT IN PRINCIPLE. be connected to a PD through a non-MDI connector that is not isolated from the MDI leads must provide isolation between all accessible external conductors, including frame ground Change "and IEEE Std 802.3cm-2020." to "IEEE Std 802.3cm-2020, IEEE Std 802.3ch-(if any), and the non-MDI connector, so as not to negate the DC isolation provided by the 2020, and IEEE Std 802.3ca-2020." For IEEE 802.3cg 10BASE-T1L can run up to 1 km and is highly likely to pick up transient C/ FM SC FM P1 L23 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 Anslow. Peter Self appropriate to use the standard 2-pair and 4 pair isolation requirements. Comment Type E Comment Status A SuggestedRemedy There are now 9 approved amendments. For IEEE 802.3 clause 104.6.1 Isolation add. SugaestedRemedy "The electrical isolation of 10BASE-T1L PDs shall conform to J.1." Change "and IEEE Std 802.3cm-2020." to "IEEE Std 802.3cm-2020, IEEE Std 802.3ch-Proposed Response Response Status W 2020, and IEEE Std 802.3ca-2020." **TFTD** Response

ACCEPT.

Response Status C

CI 0 SC 0 P**2** L4 C/ FM P**7** L15 # I-10 SC FM # I-5 Maytum, Michael Anslow, Peter Self Retired, Retired/Unemployed Comment Type TR Comment Status X Comment Type Ε Comment Status A Keywords: Ethernet: IEC 60950: IEC 62368: Isolation: safety. Please populate the list of Working Group ballot members. IEC 62368-1:2018 only uses isolation in the context of mains Interlock circuits, mains SugaestedRemedy disconnect device and Touch current from coaxial cables (galvanic isolation, which usually Populate the list of Working Group ballot members. consists of series capacitors), IEC 62368-1 uses the term "functional insulation" for the IEEE 802.3 term "isolation". Response Response Status C SuggestedRemedy ACCEPT. Add the term "functional insulation" to key words C/ FM SC FM P11 L19 Proposed Response Response Status W **TFTD** Wienckowski, Natalie General Motors Company Comment Type E Comment Status A CI 0 SC 0 P2 # I-46 L5 802.3ch was approved by the standards board. Bustos Heredia, Jairo Wurth Elektronik eiSos SuggestedRemedy Comment Type E Comment Status D Change 20xx to 2020 The word "Isolation" is capitalized whereas the next word "safety" is not. Response Response Status C SuggestedRemedy ACCEPT. Change "Isolation" with "isolation". SC FM P11 C/ FM L21 # I-20 Proposed Response Response Status W Wienckowski, Natalie General Motors Company PROPOSED ACCEPT. Comment Status A Comment Type E SC FM P**7** L7 C/ FM # I-3 Change to match update made to ch description for publication. **RMG** Consulting Grow, Robert SuggestedRemedy Comment Type Ε Comment Status A F7 Change: Clause 149 and Annex 149A The WG people that voted is now known. To: Clause 149, Annex 149A Response Response Status C SuggestedRemedy ACCEPT. Please fill in the 802.3 list of those that voted. Response Response Status C C/ FM SC FM P11 L26 1-22 ACCEPT IN PRINCIPLE. General Motors Company Wienckowski, Natalie Populate with Working Group members as detailed in the remedy for comment I-5. Comment Type E Comment Status A The remedy for comment I-5 is "Populate the list of Working Group ballot members." 802.3ca was approved by the standards board. SuggestedRemedy Change 20xx to 2020 Response Response Status C ACCEPT.

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 SORT ORDER: Page, Line

Pa 11 Li 26 Page 2 of 9 8/3/2020 3:47:54 PM

CI 0 SC 0 P22 CI 8 P24 / 40 L3 # I-45 SC 8.7.1 # I-24 Bustos Heredia, Jairo Wurth Elektronik eiSos Wienckowski, Natalie General Motors Company Comment Type E Comment Status D Comment Type E Comment Status A 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 SuggestedRemedy Table 14.10.4.5.11) Change: All Physical Layer MDI Page 45 Line 14 (in Table 40.12.7) To: All stations Page 119 Line 14 Response Response Status C SuggestedRemedy ACCEPT IN PRINCIPLE. Change "Electrical Isolation" with "Electrical isolation". Proposed Response Response Status W Change "All Physical Layer MDI meeting this standard ..." to "<All stations><<All Physical Layer MDI>> meeting this standard ..." PROPOSED ACCEPT. Where <All stations> is strikethrough text and <All Physical Laver MDI> is underlined CI 0 SC 0 P22 # I-48 L12 CI 0 SC 0 P25 L13 # I-12 Wurth Elektronik eiSos Bustos Heredia, Jairo Maytum, Michael Retired, Retired/Unemployed Comment Type E Comment Status D Comment Type TR Comment Status X "Electrical" is capitalized. The same occurrency on page 121 line 13. "Isolation impedance between", but J1 doesn't mention impedance SuggestedRemedy SuggestedRemedy Change "Electrical" with "electrical". Delete "impedance" Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. TFTD C/ 1 SC 1.3 P23 L34 # I-23 C/ 14 SC 14.3.1.1 P30 L10 # I-25 Wienckowski, Natalie General Motors Company Wienckowski, Natalie **General Motors Company** Comment Type E Comment Status A Comment Type E Comment Status A IEC 62368 is not found in IEEE802.3-2018. 802.3-2018 has different text than that quoted in this draft. It has the text as modified by SuggestedRemedy 802.3bt. Remove Subclause 1.3 and all content or change the editing instruction if an ammendment SuggestedRemedy to IEEE802.3-2018 added this reference. Change editor's instruction to: Change text in 14.3.1.1 (as modified by IEEE Std 802.3bt-Response Response Status C 2018) as follows: ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT. Change: "Change the reference for IEC 62368-1 as follows:"

Change the reference for IEC 62368-1 (as inserted by IEEE Std 802.3cg-2019) as follows:"

CI 27 SC 27.5.1 P37 CI 0 SC 0 P39 / 40 L11 # I-26 # 1-47 Wienckowski, Natalie General Motors Company Bustos Heredia, Jairo Wurth Elektronik eiSos Comment Type E Comment Status A Comment Type E Comment Status D A new note is being added. There is no existing note to change. The superscript to reference the foot note is missing. Another inconsistency has been found on page 41 line 9. SugaestedRemedy SuggestedRemedy Replace "Change" with "Insert". Also, remove underlining as it is not needed as the only Insert superscript to have: "IEC 60950-1^1". text being shown is the text to insert. Response Response Status C Proposed Response Response Status W ACCEPT. PROPOSED ACCEPT. SC 33.7.1 P39 Cl 33 CI 33 L39 # 1-27 SC 33.8.3.4 P40 L10 # I-28 Wienckowski, Natalie General Motors Company Wienckowski. Natalie General Motors Company Comment Type E Comment Status A Comment Type E Comment Status A Not all new text is underlined. Editor's note needs to include instruction to renumber the remaining items in the table. SuggestedRemedy SuggestedRemedy Underline "the general safety requirements as specified in J.2 or" Update editor's instruction to add "and renumber items EL6 through EL19 to EL3 through EL13. Response Response Status C Response Response Status C ACCEPT. ACCEPT. CI 0 SC 0 P39 L40 # I-49 CI 38 SC 38.7.1 P42 L12 # I-29 Wurth Elektronik eiSos Bustos Heredia, Jairo Wienckowski, Natalie General Motors Company Comment Type E Comment Status X Comment Status A Comment Type E Reference to IEC 60950-1. Not sure why there are still some references to IEC 60950-1 in Not all new text is underlined. the standard. Another reference has been found on page 41 line 9 and line 12 (Table 33.8.3.9), page 111 line 17, SuggestedRemedy SuggestedRemedy Underline "subject to this clause". Remove reference to IEC 60950-1. Response Response Status C Proposed Response Response Status W ACCEPT. **TFTD** 

Cl 38 SC 38.12.4.1 P43 L13 # I-30 Cl 55 SC 55.9.1 P**52** L33 # I-33 Wienckowski, Natalie General Motors Company Wienckowski, Natalie General Motors Company Comment Type E Comment Status A Comment Type E Comment Status A OR30 is in subclause 38.12.4.5. The title used in the draft is for 38.12.4.5. Not all new text is underlined. SugaestedRemedy SugaestedRemedy Change 38.12.4.1 to 38.12.4.5. Underline "to the general safety requirements as specified in" Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT. Change 38.12.4.1 to 38.12.4.5 in title and editors instruction. CI 55 SC 55.12.6 P53 L7 # I-34 C/ 40 SC 40.12.7 P45 L8 # I-31 Wienckowski, Natalie General Motors Company Comment Type E Comment Status A Wienckowski, Natalie General Motors Company Editor's note needs to include instruction to renumber the remaining items in the table. Comment Type E Comment Status A SuggestedRemedy Editor's note needs to include instruction to renumber the remaining items in the table. Add at the end of the editor's instruction "and renumber all of the items in the table SuggestedRemedy accordingly. Update editor's instruction to add "and renumber items PME6 through PME64 to PME3 Response Response Status C through PME61. ACCEPT. Response Response Status C ACCEPT. Cl 70 SC 70.9.1 P60 L11 # I-35 Wienckowski. Natalie **General Motors Company** Cl 55 SC 55.5.1 P**52** L9 # I-32 Comment Type T Comment Status D Wienckowski, Natalie General Motors Company Add reference to J.1 as well since the original text included "including isolation Comment Type E Comment Status A requirements". Referenced ammendment should be in parenthesis. SuggestedRemedy SuggestedRemedy Add the following text after "conform to the": isolate requirements as specified in J.1 and Put this text in parenthesis: as modified by IEEE Std 802.3bt-2018. Add change PICS ES1 to match. Proposed Response Response Response Status C Response Status W ACCEPT. PROPOSED ACCEPT.

C/ 71 SC 71.9.1 # I-36 C/ 93 P**77** P61 L11 SC 93.10.1 / 11 # I-39 Wienckowski, Natalie Wienckowski, Natalie General Motors Company General Motors Company Comment Type T Comment Status D Comment Type T Comment Status D Add reference to J.1 as well since the original text included "including isolation" Add reference to J.1 as well since the original text included "including isolation requirements". requirements". SugaestedRemedy SuggestedRemedy Add the following text after "conform to the": isolate requirements as specified in J.1 and Add the following text after "conform to the": isolation requirements as specified in J.1 and Add change PICS ES1 to match. Add change PICS ES1 to match. Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. Cl 72 SC 72.9.1 P63 L11 # 1-37 Cl 94 SC 94.5.1 P**79** L11 # I-40 Wienckowski, Natalie General Motors Company Wienckowski, Natalie General Motors Company Comment Type T Comment Status D Comment Type T Comment Status D Add reference to J.1 as well since the original text included "including isolation Add reference to J.1 as well since the original text included "including isolation requirements". requirements". SuggestedRemedy SuggestedRemedy Add the following text after "conform to the": isolate requirements as specified in J.1 and Add the following text after "conform to the": isolation requirements as specified in J.1 and Add change PICS ES1 to match. Add change PICS ES1 to match. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. CI 84 SC 84.10.1 P**67** C/ 138 SC 138 P103 **L1** L11 # I-38 General Motors Company Wienckowski. Natalie Anslow, Peter Self Comment Status A Comment Type T Comment Status D Comment Type E Add reference to J.1 as well since the original text included "including isolation Clause 138 was added by IEEE Std 802.3cd-2018. Clause 138 was modified by IEEE Std requirements". 802.3cn-2019, but none of the changes made affect the changes being made here. Clause 138 was also modified by IEEE Std 802.3cm-2020, which changed the title of the clause. SuggestedRemedy SuggestedRemedy Add the following text after "conform to the": isolation requirements as specified in J.1 and At the top of Page 103 change "Clause 138 was added by IEEE Std 802.3cn-2019" to Add change PICS ES1 to match. "Clause 138 was added by IEEE Std 802.3cd-2018 and changed by IEEE Std 802.3cm-Proposed Response Response Status W 2020" Change the title of Clause 138 and the titles of 138.11 and 138.11.4 to reflect the PROPOSED ACCEPT.

Response

ACCEPT.

changes made by IEEE Std 802.3cm-2020.

Response Status C

C/ 139 SC 139 P105 **L1** # I-7 Anslow, Peter Self Comment Type Ε Comment Status A Clause 139 was added by IEEE Std 802.3cd-2018, Clause 139 was modified by IEEE Std 802.3cn-2019, which changed the title of the clause. SugaestedRemedy At the top of Page 105 change "Clause 139 was added by IEEE Std 802.3cn-2019" to "Clause 139 was added by IEEE Std 802.3cd-2018 and changed by IEEE Std 802.3cn-2019" Change the title of Clause 139 and the titles of 139.11 and 139.11.4 to reflect the changes made by IEEE Std 802.3cn-2019. Response Response Status C ACCEPT. C/ 140 SC 140 P107 **L1** Anslow. Peter Self Comment Type Comment Status A Ε Clause 140 was added by IEEE Std 802.3cd-2018. Clause 140 was modified by IEEE Std 802.3cn-2019, but none of the changes made affect the changes being made here. SuggestedRemedy At the top of Page 107 change "Clause 140 was added by IEEE Std 802.3cn-2019" to "Clause 140 was added by IEEE Std 802.3cd-2018" Response Response Status C ACCEPT.

Cl 141 SC 141 P109 L1 # [-9

Anslow, Peter Self

Comment Type E Comment Status A

"Clause 141 was added by IEEE P802.3ca" should be "Clause 141 was added by IEEE Std

802.3ca-2020"
SuggestedRemedy

ACCEPT.

Change "Clause 141 was added by IEEE P802.3ca" to "Clause 141 was added by IEEE Std 802.3ca-2020"

Response Status C

C/ Annex J SC ex J

P**119** 

L16

# I-44

Wiese, James

ADTRAN Inc.

Comment Type T

Comment Status X

\*\*\* Comment submitted with the file

IEEE\_P802d3cr\_Jim\_Wiese\_comment.pdf;IEEE\_P802d3cr\_Jim\_Wiese\_suggested\_chang e.pdf attached \*\*\*

Please see attached document <IEEE\_P802d3cr\_Jim\_Wiese\_comment.pdf> for rationale.

SuggestedRemedy

Please see attached document <IEEE\_P802d3cr\_Jim\_Wiese\_suggested\_change.pdf> for suggested change.

Proposed Response

Response Status W

TFTD

C/ 0 SC 0

P119 L18

# I-16

Maytum, Michael

Retired, Retired/Unemployed

Comment Type T Comment Status X

"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

Proposed Response

Response Status W

TFTD

 CI 0
 SC 0
 P119
 L19
 # [-17]

 Maytum, Michael
 Retired, Retired/Unemployed

Comment Type T Comment Status X

"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

SC 0

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

Proposed Response Status **W** 

TFTD

CI 0

Maytum, Michael Retired, Retired/Unemployed

Comment Type TR Comment Status X

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

P119

L20

# I-18

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"

Proposed Response Status W

TFTD

Cl 0 SC 0 P119 L21 # [-14

Maytum, Michael Retired, Retired, Unemployed

Comment Type TR Comment Status X

The IEC (see IEC 60099 series) defines the impulse designation of an impulse shape: combination of two numbers, the first representing the virtual front time (T1) and the second the virtual time to half-value on the tail (T2)

Note 1 to entry: It is written as T1/T2, both in microseconds, the sign "/" having no mathematical meaning.

So the impulse designation of 1.2/50 µs doesn't need the µs.

SuggestedRemedy

Change "The shape of the impulses is 1.2/50" us " to "The shape of the impulses is 1.2/50"

Proposed Response Status **W** 

TFTD

Cl 0 SC 0 P119 L22 # [-13

Maytum, Michael Retired, Retired, Unemployed

Comment Type TR Comment Status X

"defined in Annex D of IEC 62368-1:2018." This generator is hardy ever used or available. IEC 62368-1 specifies the use of this circuit 2 D.1 generator in G.10.3 Resistor test, G.16 IC that includes a capacitor discharge function (ICX) and to simulate transients in AC and DC mains power distribution systems. It is not used for testing functional insulation. The generator that is specified for insulation testing in IEC 60664-1:2020 is the 1.2/50-8/20 combination generator as described in IEC 61000-4-5:2014 Table 2.

SuggestedRemedy

Change text to "defined in Table 2 of IEC61000-4-5:2014"

Proposed Response Response Status W

TFTD

C/ J1 SC J1 P119 L27 # [-43

Maytum, Michael Retired, Retired / Unemployed

Comment Type TR Comment Status X

How to handle voltage limiters has never been clearly defined, even back in the IEC 60950-1 days. Yet the approach is obvious to experienced engineers.

Many Ethernet port designs use a voltage limiting function (component) to prevent voltage transients (impulse) from causing the insulation breakdown. Technically the conduction of voltage limiting function is not insulation breakdown, but it will try to mitigate the specified AC, DC and impulse voltages appearing at the Ethernet port. IEC 62368-1 has two approaches when the external circuit port is fitted with voltage limiting. 5.4.9.1 Test procedure for type testing of solid insulation states "Components providing a DC path in parallel with the insulation to be tested, such as discharge resistors for filter capacitors and voltage limiting devices, may be disconnected." Please note "May" not "Shall". For impulse testing, the Table 28 notes explains some more " Surge suppressors may be

removed, provided that such devices pass the impulse test of 5.4.10.2.2 when tested as components outside the equipment." and "During this test, it is allowed for a (fitted) surge suppressor to operate and for a sparkover to occur in a GDT."

For AC and DC testing no source impedance is specified (unlimited current) so voltage limiters must be removed to avoid destroying them. For impulse testing the voltage limiting function may be left in place as this is its intended purpose (mitigate transient voltages).

## SuggestedRemedy

Add the following text

"Voltage limiters intended to prevent Ethernet port insulation breakdown shall be removed for AC and DC voltage testing if their limiting voltage is less than the specified AC or DC test voltages applied. For impulse testing, voltage limiters may be left in place to perform their intended function. If removed for impulse testing, the voltage limiter shall pass the impulse test when separately tested."

Proposed Response Response Status W

TFTD

CI 0 SC 0

P119

L27

# I-15

Maytum, Michael

Retired, Retired/Unemployed

Comment Type TR

Comment Status X

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.

#### SuggestedRemedy

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. applies a short across the isolation followed by a measurents and observations for safety hazards."

Proposed Response

Response Status W

**TFTD** 

C/ 83A SC 83A.6.1

P**122** 

L17

# I-41

Wienckowski, Natalie

General Motors Company

Comment Type T Comment Status D

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 and Add change PICS ES1 to match.

Proposed Response

Response Status W

PROPOSED ACCEPT.

CI 83B

SC 83B.4.1

P124

L17

1-42

Wienckowski, Natalie

General Motors Company

Comment Type T

Comment Status D

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 and Add change PICS ES1 to match.

Proposed Response

Response Status W

PROPOSED ACCEPT.

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 SORT ORDER: Page, Line

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