Cl **121** *SC* **121.7.1** *P* **29** *L* **40** # 1

Zimmerman, George — CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco

Comment Type **E** *Comment Status* **X**

Footnote "c" in 802.3-2018 has changed to "d" and isn't marked as a change

Same comment applies to Table 122-9 on page 43 and footnote "e" on Table 122-10, page 44

SuggestedRemedy

Mark "d" as changed from "c" (strikeout & underscore). Change is both on line 40 and 45

Same change on Page 43, lines 44 & 49

Mark "e" as changed from "d" (strikeout & underscore). Change is both P 44 L50 and P45 L4

Proposed Response *Response Status* **O**

Cl **121** *SC* **121.8.6a** *P* **32** *L* **47** # 2

Zimmerman, George — CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco

Comment Type **T** *Comment Status* **X**

Sentence combines test fixture and definition in a way that doesn't make sense. Fortunately, the test fixture is described in 121.8.5.1 TDECQ conformance test setup.
"Transmitter transition time is defined as the slower of the time interval of the transition from 20% of
OMAouter to 80% of OMAouter, or from 80% of OMAouter to 20% of OMAouter, for the rising and falling
edges respectively, as measured through an O/E converter and oscilloscope with a combined 3 dB
bandwidth of approximately 13.28125 GHz with a fourth-order Bessel-Thomson response to at least
1.5 × 26.5625 GHz and at frequencies above 1.5 × 26.5625 GHz the response should not exceed –24 dB.
Compensation may be made for any deviation from an ideal fourth-order Bessel-Thomson response."

Same comment applies to P51 L23: 122.8.6.a 2nd paragraph

SuggestedRemedy

Break up to read: "Transmitter transition time is defined as the slower of the time interval of the transition from 20% of OMAouter to 80% of OMAouter, or from 80% of OMAouter to 20% of OMAouter, for the rising and falling
edges respectively, as measured through the test setup specified in 121.8.5.1 TDECQ conformance test setup."

Same change on 122.8.6.a, referencing 122.8.5.1 instead of 121.8.5.1

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.1** *P* **43** *L* **16** # 3

Lewis, David — Lumentum

Comment Type **T** *Comment Status* **X**

In Table 122-9 the values for 200GBASE-ER4 Average launch power, each lane (max) and Total average launch power (max)are specified to 1/100 dB precision. This is unecessarily tight. Other PMDs in this clause specify these parameters to 1/10 dB precision.

SuggestedRemedy

Change the value of Average launch power, each lane (max) from 6.63 to 6.6.
Change the value of Total average launch power (max) from 12.63 to 12.6.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.1** *P* **44** *L* **19** # 4

Lewis, David Lumentum

Comment Type **T** *Comment Status* **X**

In Table 122-10 the value for Average launch power, each lane (min) for 400GBASE-ER8 is 2.5 dB below the value for OMAouter, each lane (min). This is different to other PMDs in this clause where the differential is set to 3 dB. The 2.5 dB is based on a maximum ER of about 12 dB, which seems unecessary.

SuggestedRemedy

Change the value of Average launch power, each lane (min) from -0.1 to -0.6.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.1** *P* **44** *L* **21** # 5

Lewis, David Lumentum

Comment Type **T** *Comment Status* **X**

In Table 122-10 the value for Total average launch power (max) for 400GBASE-ER8 is 9.1 dB higher than the value for Average launch power, each lane (max). This is 0.1 dB higher than needed and does not follow the values for 400GBASE-FR8 and 400GBASE-LR8 in the same table, which both have a difference of 7.9 dB for some reason.

SuggestedRemedy

Change the value for Total average launch power (max) from 14.7 to 14.6.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.2** *P* **45** *L* **32** # 6

Lewis, David Lumentum

Comment Type **T** *Comment Status* **X**

In Table 122-11 the values for 200GBASE-ER4 Damage threshold, each lane and Average receiver power, each lane (max) are unecessarily precise. These parameters are specified to a precision of 0.1 dB elsewhere.

SuggestedRemedy

Change Damage threshold, each lane from -2.37 to -2.4.
Change Average receive power, each lane (max) from -3.37 to -3.4.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.8.8** *P* **52** *L* **4** # 7

Lewis, David Lumentum

Comment Type **E** *Comment Status* **X**

The units for equations 122-1, 122-2 and 122-3 should be dBm.

SuggestedRemedy

Change (dB) to (dBm) in 3 places.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.8.8** *P* **52** *L* **52** # 8

Lewis, David Lumentum

Comment Type **E** *Comment Status* **X**

The units for equations 122-4, 122-5 and 122-6 should be dBm.

SuggestedRemedy

Change (dB) to (dBm) in 3 places.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.11.1** *P* **56** *L* **27** # 9

Lewis, David Lumentum

Comment Type **E** *Comment Status* **X**

Note b to Table 122-18 says "may not support operation 10 km for..." which would be better as "may not support operation up to 10 km for....".

SuggestedRemedy

Add the words "up to" between operation and 10 km. Also on the same line, add the words "up to" between or and 40 km.

Proposed Response *Response Status* **O**

Cl **139** *SC* **139.6.1** *P* **71** *L* **40** # 10

Lewis, David Lumentum

Comment Type **T** *Comment Status* **X**

The value for Average launch power (max) for 50GBASE-ER is over precise. As for other similar parameters in this clause, the value should be rounded to 1 decimal place.

SuggestedRemedy

Change Average launch power (max) from 6.63 to 6.6 dB for 50GBASE-ER.

Proposed Response *Response Status* **O**

Cl **139** *SC* **139.6.2** *P* **72** *L* **41** # 11

Lewis, David Lumentum

Comment Type **T** *Comment Status* **X**

In Table 139-7 the values for Damage threshold and Average receive power (max) for 50GBASE-ER are given with 2 decimal places. A precision of 1 decimal place is sufficient.

SuggestedRemedy

Change Damage threshold from -2.37 to -2.4 for 50GBASE-ER.
Change Average receive power (max) from -3.37 to -3.4 for 50GBASE-ER.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7** *P* **41** *L* **47** # 12

Anslow, Pete Ciena

Comment Type **T** *Comment Status* **X**

Subclause 122.7 contains interoperability requirements between 400GBASE-FR8 and 400GBASE-LR8, but does not contain interoperability requirements between 200GBASE-ER4 and 200GBASE-LR4 or between 400GBASE-ER8 and the other two 400G PMDs.
Similarly, subclause 139.6 contains interoperability requirements between 50GBASE-FR and 50GBASE-LR but does not contain interoperability requirements between 50GBASE-ER and the other two 50G PMDs.
The attached presentation (anslow_3cn_01_0519) provides information on the interoperability requirements and contains a proposal for how to modify the draft to address this issue.

SuggestedRemedy

Apply the changes proposed on pages 8 to 14 of the attached presentation (anslow_3cn_01_0519)

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.1** *P* **43** *L* **15** # 13

Anslow, Pete Ciena

Comment Type **T** *Comment Status* **X**

IEEE transmitter specifications generally specify powers derived form other values to the nearest 0.1 dB.
This has been done for 400GBASE-ER8 but not for 200GBASE-ER4
The OMAouter, each lane (max) value for 200GBASE-ER4 is 7.4 dBm.
With the worst case ER of 6 dB this is a calculated maximum average power of 6.6295 dBm. This should be rounded to 6.6 dBm.
If all four lanes are at a maximum power of 6.6 dBm, the maximum total average launch power calculates as 12.62 dBm. This should be rounded to 12.6 dBm.
Making these changes also affects the "Average receive power, each lane (max)" and the "Damage threshold, each lane" for 200GBASE-ER4.

SuggestedRemedy

In Table 122-9 for 200GBASE-ER4:
Change the "Average launch power, each lane (max)" from 6.63 to 6.6 dBm
Change the "Total average launch power (max)" from 12.63 to 12.6 dBm

In Table 122-11 for 200GBASE-ER4:
Change the "Average receive power, each lane (max)" from –3.37 to –3.4 dBm
Change the "Damage threshold, each lane" from –2.37 to –2.4 dBm

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.2** *P* **45** *L* **45** # 14

Anslow, Pete Ciena

Comment Type **T** *Comment Status* **X**

The list of changes to the "existing 200 Gb/s and 400 Gb/s physical medium dependent sublayers over single-mode fiber" listed in:
http://www.ieee802.org/3/cn/public/19_01/anslow_3cn_01_0119.pdf#page=3 included:
"For all PMDs except 400GBASE-DR4, reduce the target SECQ and the stressed receiver sensitivity (max) by 0.2 dB"
This was done for 200GBASE-DR4 in Table 121-7, but for 200GBASE-FR4 and 200GBASE-LR4 in Table 122-11 as well as 400GBASE-FR8 and 400GBASE-LR8 in Table 122-12 the Stressed receiver sensitivity has not been changed. Because the "OMAouter of each aggressor lane" is derived from the Stressed receiver sensitivity, these values should be changed also.

SuggestedRemedy

In Table 122-11:
Change the "Stressed receiver sensitivity (OMAouter), each lane (max)" for 200GBASE-FR4 from –3.6 to –3.8 dBm
Change the "Stressed receiver sensitivity (OMAouter), each lane (max)" for 200GBASE-LR4 from –5.2 to –5.4 dBm
Change the "OMAouter of each aggressor lane" for 200GBASE-FR4 from 0.5 to 0.3 dBm
Change the "OMAouter of each aggressor lane" for 200GBASE-LR4 from –1 to –1.2 dBm

In Table 122-12:
Change the "Stressed receiver sensitivity (OMAouter), each lane (max)" for 400GBASE-FR8 from –3.1 to –3.3 dBm
Change the "Stressed receiver sensitivity (OMAouter), each lane (max)" for 400GBASE-LR8 from –4.7 to –4.9 dBm
Change the "OMAouter of each aggressor lane" for 400GBASE-FR8 from 1 to 0.8 dBm
Change the "OMAouter of each aggressor lane" for 400GBASE-LR8 from –0.2 to –0.4 dBm

Proposed Response *Response Status* **O**

Cl **139** *SC* **139.6.1** *P* **71** *L* **40** # 15

Anslow, Pete Ciena

Comment Type **T** *Comment Status* **X**

IEEE transmitter specifications generally specify powers derived form other values to the nearest 0.1 dB.
This has been done for 400GBASE-ER8 but not for 50GBASE-ER
The OMAouter (max) value for 50GBASE-ER is 7.4 dBm.
With the worst case ER of 6 dB this is a calculated maximum average power of 6.6295 dBm. This should be rounded to 6.6 dBm.
Making this change also affects the "Average receive power (max)" and the "Damage threshold" for 50GBASE-ER.

SuggestedRemedy

In Table 139-6 for 50GBASE-ER:
Change the "Average launch power (max)" from 6.63 to 6.6 dBm

In Table 139-7 for 50GBASE-ER:
Change the "Average receive power (max)" from –3.37 to –3.4 dBm
Change the "Damage threshold" from –2.37 to –2.4 dBm

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7** *P* **42** *L* **17** # 16

Ferretti, Vince Corning

Comment Type **E** *Comment Status* **X**

IEC 60793-2-50 2018 has updated single-mode fiber naming convention to be more in line with ITU-T

SuggestedRemedy

In Table 122.8 notes, Change "type B1.1, type B1.3, or type B6_a single-mode fiber." to "type B-652.B, type B-652.D or type B-657"

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.3** *P* **47** *L* **42** # 17

Ferretti, Vince Corning

Comment Type **E** *Comment Status* **X**

IEC 60793-2-50 2018 has updated single-mode fiber naming convention to be more in line with ITU-T

SuggestedRemedy

In Table 122.13 notes, Change "type B1.1, type B1.3, or type B6_a single-mode fiber." to "type B-652.B, type B-652.D or type B-657"

Proposed Response *Response Status* **O**

Cl **139** *SC* **139.6** *P* **71** *L* **16** # 18

Ferretti, Vince Corning

Comment Type **E** *Comment Status* **X**

IEC 60793-2-50 2018 has updated single-mode fiber naming convention to be more in line with ITU-T

SuggestedRemedy

In Table 139.5 notes, Change "type B1.1, type B1.3, or type B6_a single-mode fiber." to "type B-652.B, type B-652.D or type B-657"

Proposed Response *Response Status* **O**

Cl **139** *SC* **139.6.3** *P* **73** *L* **42** # 19

Ferretti, Vince Corning

Comment Type **E** *Comment Status* **X**

IEC 60793-2-50 2018 has updated single-mode fiber naming convention to be more in line with ITU-T

SuggestedRemedy

In Table 139.8 notes, Change "type B1.1, type B1.3, or type B6_a single-mode fiber." to "type B-652.B, type B-652.D or type B-657"

Proposed Response *Response Status* **O**

Cl **124** *SC* **124.9** *P* **64** *L* **19** # 20

Anslow, Pete Ciena

Comment Type **E** *Comment Status* **X**

The PICS heading in Clause 124 is 124.11 not 124.9

SuggestedRemedy

Change the heading numbering for the Clause 124 PICS to be 124.11, 124.11.4, and 124.11.4.4 for the 3 PICS headings on page 64

Proposed Response *Response Status* **O**

Cl **00** *SC* **0** *P* **1** *L* **6** # 21

Kabra, Lokesh Synopsys

Comment Type **E** *Comment Status* **X**

"sin-gle-mode"

SuggestedRemedy

Change "sin-gle-mode" to "single-mode"

Proposed Response *Response Status* **O**

Cl **00** *SC* **0** *P* **12** *L* **3** # 22

Kabra, Lokesh Synopsys

Comment Type **E** *Comment Status* **X**

Does not mention new clause added in 802.3cm as described in previous references

SuggestedRemedy

Change "Std 802.3-2018 and adds Physical" to "Std 802.3-2018 and adds Clause 150. This amendment adds Physical"

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.12.4.4a** *P* **59** *L* **22** # 23

Marris, Arthur — Cadence Design Systems

Comment Type **E** *Comment Status* **X**

Inserted text should not be underlined

SuggestedRemedy

Remove underling on ERF1 and ERF2 items.

Proposed Response *Response Status* **O**

Cl **139** *SC* **139.1** *P* **17** *L* **68** # 24

Maguire, Valerie — The Siemon Company

Comment Type **E** *Comment Status* **X**

Extraneous comma.

SuggestedRemedy

Replace, "Clause 45, or equivalent" with "Clause 45 or equivalent" using revision marks to show the comma in strikethrough.

Proposed Response *Response Status* **O**

Cl **FM** *SC* **FM** *P* **10** *L* **5** # 25

Maguire, Valerie — The Siemon Company

Comment Type **E** *Comment Status* **X**

Extra space.

SuggestedRemedy

Replace, "over Single- Mode Fiber" with "over Single-Mode Fiber".

Proposed Response *Response Status* **W**

[Editor's note: Subclause "Front Matter" changed to "FM"]

Cl **116** *SC* **116.1.3** *P* **26** *L* **28** # 26

Maguire, Valerie — The Siemon Company

Comment Type **E** *Comment Status* **X**

A hypen in "single-mode" appears to be present because the word splits across two lines, but "singlemode" is what's actually used in the sentence.

SuggestedRemedy

Replace "singlemode" with "single-mode".

Proposed Response *Response Status* **O**

Cl **FM** *SC* **FM** *P* **7** *L* **20** # 27

Grow, Robert — RMG Consulting

Comment Type **E** *Comment Status* **X**

The WG ballot list is now known, though some may qualify for listing during recirculations.

SuggestedRemedy

Add list prior to Sponsor ballot

Proposed Response *Response Status* **O**

Cl **FM** *SC* **FM** *P* **8** *L* **1** # 28

Grow, Robert — RMG Consulting

Comment Type **E** *Comment Status* **X**

This template language is not consistent with current governance document terminology.

SuggestedRemedy

Please recommend to IEEE editorial staff to update the template language: "The following individuals participated the Standards Committee ballot on this standard. Balloters may have voted for approval, disapproval, or abstention." For entity ballots I would recommend "The following entity representatives participated in the Standards Committee ballot on this standard. Balloters may have voted for approval, disapproval, or abstention." (Unless it should simply say "entities" rather than "entity representatives".)

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.1** *P* **43** *L* # 29

John, DeAndrea Finisar

Comment Type **T** *Comment Status* **X**

Table 122-9, Row 4, Column 4, Total average launch power.
Specifyingo 1/100 decimal place iimpractical.

SuggestedRemedy

Suggest changing 12.63 to 12.6

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.1** *P* **43** *L* # 30

John, DeAndrea Finisar

Comment Type **T** *Comment Status* **X**

Table 122-9, Row 5, Column 4, Average launch power, each lane, 6.63
Specifyin to 1/100 decimal place is impractical.

SuggestedRemedy

Suggest changing 6.63 to 6.6

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.2** *P* **45** *L* # 31

John, DeAndrea Finisar

Comment Type **T** *Comment Status* **X**

Table 122-11, Row 4, Coulumn 3, Damage threshold, each lane, -2.37
Specifying to 1/100 decimal place iimpractical.

SuggestedRemedy

Suggest changing -2.37 to -2.4

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.2** *P* **45** *L* # 32

John, DeAndrea Finisar

Comment Type **T** *Comment Status* **X**

Table 122-11, Row 4, Coulumn 4, Damage threshold, each lane, -3.37
Specifying to 1/100 decimal place ie iimpractical.

SuggestedRemedy

Suggest changing -3.37 to -3.4

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.1 table 122-9** *P* **43** *L* **30** # 33

Chang, Frank Source Photonics

Comment Type **T** *Comment Status* **X**

D2.0 has applied a 0.2dB reduction in TDECQ max value to WDM MUX based 200G-DR4/FR4/LR4 and 400G FR8/LR8. Our understanding during P802.3cd discussion, the consencus was focused on reducing by 0.2dB for 50G-FR/LR for non-WDM based PMDs non-WDM based PMDs by adding threshold adjust. While TDECQ max of 3.4dB was somewhat arbitrary values which has not been fully proved, so my suggest we should leave the TDECQ values unchanged for WDM MUX based PMDs including 200G-FR4/LR4 and 400G FR8/LR8. We will follow up with presenation slides.

SuggestedRemedy

change TDECQ and TDECQ-10log(Ceq) to 3.3 from 3.1 for 200G-FR4; and to 3.4 from 3.1 for 200G-LR4.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.1 table 122-10** *P* **44** *L* **35** # 34

Chang, Frank Source Photonics

Comment Type **T** *Comment Status* **X**

D2.0 has applied a 0.2dB reduction in TDECQ max value to WDM MUX based 200G-DR4/FR4/LR4 and 400G FR8/LR8. Our understanding during P802.3cd discussion, the consencus was focused on reducing by 0.2dB for 50G-FR/LR for non-WDM based PMDs by adding threshold adjust. While TDECQ max of 3.3-3.4dB was somewhat arbitrary values which has not been fully proved, so my suggest we should leave the TDECQ values unchanged for WDM MUX based PMDs including 200G-FR4/LR4 and 400G FR8/LR8. We will follow up with presenation slides.

SuggestedRemedy

change TDECQ and TDECQ-10log(Ceq) to 3.1 from 2.9 for 400G-FR8; and to 3.3 from 3.1 for 400G-LR8.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.2 table 122-11** *P* **45** *L* **49** # 35

Chang, Frank Source Photonics

Comment Type **T** *Comment Status* **X**

Same comment as above, SECQ should match TDECQ max change for RX on 200-FR4/LR4

SuggestedRemedy

change SECQ and SECQ-10log(Ceq) to 3.3 from 3.1 for 200G-FR4; and to 3.4 from 3.2 for 200G-LR4.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.2 table 122-12** *P* **46** *L* **44** # 36

Chang, Frank Source Photonics

Comment Type **T** *Comment Status* **X**

Same comment as above, SECQ should match TDECQ max change for RX on 200-FR4/LR4

SuggestedRemedy

change SECQ and SECQ-10log(Ceq) to 3.3 from 3.1 for 200G-FR4; and to 3.4 from 3.2 for 200G-LR4.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.3 table 122-13** *P* **47** *L* **24** # 37

Chang, Frank Source Photonics

Comment Type **T** *Comment Status* **X**

Same comment as above, SECQ should match TDECQ max change for RX on 200-FR4/LR4

SuggestedRemedy

Simply for the change in Power budget and allocation for penalties by 0.3dB offset.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.1 table 122-9** *P* **43** *L* **26** # 38

Chang, Frank Source Photonics

Comment Type **T** *Comment Status* **X**

Current 100G ER4 deployment in practice use ER lite to guarantee 30km over any deployment fibers and 40km is considered as engineered link, e.g. not guaranteed for worst case deployment fiber from insertion loss perspective. In order to upgrade from 100G-ER4 to 200G-ER4 and 400G-ER8 cost-effectively, we would suggest to also add the 200G-ER4 lite and 400G-ER8 lite catagory (or sub-column). 200G-ER4 lite and 400G-ER8 lite still use the 15dB insertion loss as max. The 3dB extra budget split into two part: allocated 2dB to reduce TxOMA min and 1dB to relax RxOMA max. We will follow up with presenation slides.

SuggestedRemedy

Add 200G-ER4 lite category (or sub-column). Allocate 2dB extra budget to Tx side. Chang TxOMA min from 3.4 to 1.4dB, and change TxOMA-TDECQmin from 2 to 0dBm.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.1 table 122-10** *P* **44** *L* **26** # 39

Chang, Frank Source Photonics

Comment Type **T** *Comment Status* **X**

Current 100G ER4 deployment in practice use ER lite to guarantee 30km over any deployment fibers and 40km is considered as engineered link, e.g. not guaranteed for worst case deployment fiber from insertion loss perspective. In order to upgrade from 100G-ER4 to 200G-ER4 and 400G-ER8 cost-effectively, we would suggest to also add the 200G-ER4 lite and 400G-ER8 lite catagory (or sub-column). 200G-ER4 lite and 400G-ER8 lite still use the 15dB insertion loss as max. The 3dB extra budget split into two part: allocated 2dB to reduce TxOMA min and 1dB to relax RxOMA max. We will follow up with presenation slides.

SuggestedRemedy

Add 400G-ER8 lite category (or sub-column). Allocate 2dB extra budget to Tx side. Chang TxOMA min from 2.4 to 0.4dB, and change TxOMA-TDECQmin from 1 to -1dBm.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.2 table 122-11** *P* **45** *L* **42** # 40

Chang, Frank Source Photonics

Comment Type **T** *Comment Status* **X**

Same comment as above, RX should match TX launching power change on 200-ER4

SuggestedRemedy

Add 200G-ER4 lite category (or sub-column). Allocate 1dB extra budget to Rx side. Relax RxOMA min from -15.1 to -14.1dBm in Eq.122-3, and SRS OMA max from -13.3 to -12.3dBm

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.2 table 122-12** *P* **46** *L* **37** # 41

Chang, Frank Source Photonics

Comment Type **T** *Comment Status* **X**

Same comment as above, RX should match TX launching power change on 400-ER8

SuggestedRemedy

Add 400G-ER8 lite category (or sub-column). Allocate 1dB extra budget to Rx side. Relax RxOMA min from -16.1 to -15.1dB in Eq.122-6, and SRS OMA max from -14.1 to -13.1dBm

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.8.8 Eq 122-3 and F** *P* **52** *L* **8** # 42

Chang, Frank Source Photonics

Comment Type **T** *Comment Status* **X**

Same comment as above, RX should match TX launching power change on 200-ER8

SuggestedRemedy

Add 200G-ER4 lite category. Relax RxOMA min from -15.1 to -14.1dB in Eq.122-3, and in Fig. 122-6

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.8.8 Eq 122-6 and F** *P* **53** *L* **3** # 43

Chang, Frank Source Photonics

Comment Type **T** *Comment Status* **X**

Same comment as above, RX should match TX launching power change on 400-ER8

SuggestedRemedy

Add 400G-ER8 lite category. Relax RxOMA min from -16.1 to -15.1dB in Eq.122-3, and in Fig. 122-6

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.7.3 table 122-13** *P* **47** *L* **24** # 44

Chang, Frank Source Photonics

Comment Type **T** *Comment Status* **X**

Same comment as above, RX should match TX launching power change on 200G-ER4 and 400-ER8

SuggestedRemedy

change Power budget (for max. TDECQ) from 21.7 and 21.9 to 18.7 and 18.9dB; Additional insertion loss allowed from 3 to 0dB for 200G-ER4 and 400G-ER8.

Proposed Response *Response Status* **O**

Cl **122** *SC* **122.10 table 122-17** *P* **55** *L* **30** # 45

Chang, Frank Source Photonics

Comment Type **T** *Comment Status* **X**

Same comment as above, RX should match TX launching power change on 200G-ER4 and 400-ER8

SuggestedRemedy

Change channel insertion loss from 18 to 15dB for 30km for 200G-ER4 and 400G-ER8

Proposed Response *Response Status* **O**