Cl **157** *SC* **1.4** *P* **42** *L* **9** # 115

Effenberger, Frank Futurewei Technologies

Comment Type **T** *Comment Status* **A**

The BR20 and BR40+ PMD's need the strong RS FEC that is specified in clause 108 (i.e., th same FEC used for 25G.

SuggestedRemedy

Modify table 157-2 to change the "FEC" clause referenced to 108. Make the entries for BR2(and BR40+ (four places) "M". The BR10 and BR40 entries can remain "O".

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Also need to add FEC block to Figure 157-1 10GBASE and mark it for 10GBASE-BR20 and BR40+.

Cl **158** *SC* **1** *P* **47** *L* **20** # 116

Effenberger, Frank Futurewei Technologies

Comment Type **T** *Comment Status* **A**

The FEC reference in the table is not correct. Also, the PMDs are grouped incorrectly given t new FEC requirement

SuggestedRemedy

Reformat the table so that BR10 and BR40 are in column #2, and BR20 and BR40+ are in column #3. Change the bottom row to list clause "108 RS-FEC*", Optional, and Required. A a footnote:
* Clause 108 describes an FEC for 25 Gb/s PHY, but the same scheme can be applied to 10 Gb/s PHYs.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Also update 158.1.1 (Bit error ratio), BR20 and BR40+ will reuse the text in 159.1.1.

Cl **158** *SC* **6.1** *P* **52** *L* **1** # 117

Effenberger, Frank Futurewei Technologies

Comment Type **T** *Comment Status* **A**

The optical parameters for BR20 and BR40+ are very difficult to implement, due to the large l loss range. The use of APD receivers and RS-FEC makes these more practical.

SuggestedRemedy

Modify the following entries:
BR20BR40+
Av Power Max-5.6+4.0
Av Power Min-12.0-4.0
OMA-TDP Min-10.0-2.0
OMA Min-9.0-1.0
TDP Max2.02.6
ER Min55

Response *Response Status* **C**

ACCEPT.

Cl **158** *SC* **6.2** *P* **53** *L* **1** # 118

Effenberger, Frank Futurewei Technologies

Comment Type **T** *Comment Status* **A**

We need to change the Rx levels to match the new Tx.

SuggestedRemedy

Modify the entries as noted:
BR20BR40+
Av Power Max-5.6-6.0
Av Power Min-27.2-27.2
Damage Power-4.6-5.0
Sensitivity OMA-25.0-25.0
Stressed OMA-22.7-22.7

Modify footnote (d) to read: Measured with a conformance test signal at TP3 (see 52.9.9.3) fc BER = 10^-12 for BR10 and BR40, and for BER = 5*10^-5 for BR20 and BR40+

Response *Response Status* **C**

ACCEPT.

Cl **159** *SC* **1** *P* **65** *L* **20** # 114

Effenberger, Frank Futurewei Technologies

Comment Type **E** *Comment Status* **A**

The table has 3 columns for 4 PHY types. This doesn't make sense.

SuggestedRemedy

Two remedies:
1) Make the table have two columns, and lump all 4 PHYs into one column.
2) Make the table have five columns, and give each PHY its own.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.
Implement remedy #1 to the draft