

Comments (#60, PD spec related)

**1. Comment #60 (Clause 145.3.8.2 Page 195, line 45)**

In the text "PDs may also adjust their maximum required operating power below PClass\_PD or PClass\_PD-2P by using Autoclass (see 145.3.6.2).", the Autoclass applies only for single-signature *or dual-signature operating over 2-pairs*.

See updated comment and remedy in darshan\_05\_0517.pdf

**2. In 145.3.8.4 page 197 line 50 in the text:**

"Peak power is defined in Table 145–28 and depends on the Class assigned by the PSE. *The equations in Table 145–28 are used to approximate the ratiometric peak powers of Class 1 through Class 8.* These equations may be used to calculate PPeak\_PD or PPeak\_PD-2P for Data Link Layer classification by substituting PClass\_PD or PClass\_PD-2P with PDMaxPowerValue and for Autoclass by substituting PClass\_PD with PAutoclass\_PD."

The equation is not in Table 145-28 it is in 145.3.8.4.1 but is required also in 145.3.8.4.

Proposed Remedy:

**1. Make the following changes for clause 145.3.8.2 page 195 line 45):**

"PDs may also adjust their maximum required operating power below PClass\_PD or PClass\_PD-2P ([when dual-signature PD operates over 2-pairs](#)) by using Autoclass (see 145.3.6.2)."

**2. Make the following changes for clause 145.3.8.4 page 197 line 50):**

**145.3.8.4 Peak operating power**

[Peak operating power is  \$1.05 \times P\_{Port\\_PD}\$  for single-signature PDs and is  \$1.05 \times P\_{Port\\_PD-2P}\$  for dual-signature PDs on each pairset.](#) Peak power ~~is defined in Table 145–28 and~~ depends on the Class assigned by the PSE. ~~The equations above equation in Table 145–28 are~~ *is used to approximate the ratiometric peak powers of Class 1 through Class 8.* These equations may be used to calculate PPeak\_PD or PPeak\_PD-2P for Data Link Layer classification by substituting PClass\_PD or PClass\_PD-2P with PDMaxPowerValue and for Autoclass by substituting PClass\_PD with PAutoclass\_PD."

**145.3.8.4.1 Peak operating power exceptions**

For Class 6 and Class 8 single-signature PDs and for Class 5 dual-signature PDs, when additional information is available to the PD regarding actual channel DC resistance between the PSE PI and the PD PI, in any operating condition with any static voltage at the PI, the peak power shall not exceed PPort\_PD for single-sig-nature PDs and PPort\_PD-2P for dual-signature PDs at the PSE PI for more than TCUT-2P min, as defined in Table 145–16 and with 5% duty cycle. **Peak operating power shall not exceed  $1.05 \times P_{Port\_PD}$  for single-sig-nature PDs and shall not exceed  $1.05 \times P_{Port\_PD-2P}$  for dual-signature PDs on each pairset.**

