

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

CI 104 SC 104.3.3.6 P 42 L 30 # 7  
 Dove, Daniel Dove Networking Solut

Comment Type TR Comment Status D

The logic coming out of CLASS\_EVAL will very likely exit immediately. !valid\_class is probably true before tclass\_timer\_done is true, so this logic would immediately leave on that arc.

SuggestedRemedy

(tclass\_timer\_done \* !valid\_class) + power\_not\_available is probably a better logic set.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 104 SC 104.3.3.6 P 42 L 33 # 8  
 Dove, Daniel Dove Networking Solut

Comment Type T Comment Status D

This is a question: Currently we assign pi\_powered<=TRUE in the POWER\_UP state. Is there any issue with doing it here, vs the POWER\_ON state where things are likely to be more stable?

SuggestedRemedy

Task force to discuss and resolve the question.

Proposed Response Response Status W

PROPOSED REJECT.

See comment 119.

Assigning TRUE to pi\_powered during POWER\_UP state is consistent with what is done in PoE.

CI 104 SC 104.3.3.6 P 42 L 48 # 9  
 Dove, Daniel Dove Networking Solut

Comment Type TR Comment Status D

In SLEEP state, pi\_sleeping<=TRUE and pi\_powered<=FALSE assignments are redundant. The SETTLE\_SLEEP state asserts these values and there is no other way into the SLEEP state, so they are redundant.

SuggestedRemedy

Remove those two value assignments

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 104 SC 104.3.3.6 P 42 L 48 # 10  
 Dove, Daniel Dove Networking Solut

Comment Type TR Comment Status D

In the OVERLOAD state, "stop ted\_timer" is not appropriate. It looks like it was supposed to be deprecated when you renamed to tod\_timer and added the OVERLOAD\_DELAY state.

SuggestedRemedy

Remove "stop ted\_timer" from OVERLOAD state unless your objective is to clear the tod\_timer\_done conditions. If so, correct the name of the timer.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 104 SC 104.3.3.6 P 42 L 48 # 11  
 Dove, Daniel Dove Networking Solut

Comment Type TR Comment Status D

Minor Nit: Coming out of OVERLOAD is a UCT, but I would argue that you will not come out of this state if overload\_detected is true.

SuggestedRemedy

Therefore, suggest that you replace UCT with !overload\_detected.

Proposed Response Response Status W

PROPOSED REJECT.

Once the OVERLOAD state has been entered, power is removed from the PI, and the only way to re-apply power is to follow the existing arcs. That is the intent, hence the UCT.

CI 104 SC 104.3.3.6 P 42 L 48 # 12  
 Dove, Daniel Dove Networking Solut

Comment Type E Comment Status D

VERY Minor Nit: The arc logic from RESTART and RESTART\_DELAY statements are too close to the boxes, causing the "\_" characters to be partially obscured.

SuggestedRemedy

Move the arc statements up a tiddly bit.

Proposed Response Response Status W

PROPOSED ACCEPT. EZ.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

CI 104 SC 104.3.5 P 42 L 41 # 13  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 Separate "offull" into "of" and "full"  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.  
 See comment 98.

CI 104 SC 104.3.6.1 P 44 L 29 # 14  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status D  
 Subclause 104.3.6.1 is referenced by item #1 in table 104-3 but there is nothing in 104.3.6.1 relating to VPSE(PON)  
 SuggestedRemedy  
 Add the following text to 104.3.6.1: "A PSE operating in the POWER\_ON state shall apply a voltage in the range of PSE(PON) at the PI.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

CI 104 SC 104.3.6 P 43 L 14 # 15  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 Item 3 references subclause 104.3.6.1 but there is nothing there relating to transients.  
 SuggestedRemedy  
 Reference 104.3.6.3 instead.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

CI 104 SC 104.3.6 P 43 L 38 # 16  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 Fix indent on item 6.  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

CI 104 SC 104.3.6 P 44 L 14 # 17  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 Items 16-19 reference subclause 104.3.6.2.1 but it should be 104.3.6.2.2.  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.  
 OBE by 103.

CI 30 SC 30.14.1 P 20 L 50 # 18  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 Missing period at end of sentence.  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

Cl 30 SC 30.14.1.1.4 P 22 L 12 # 19  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 "typeAB" should read "typeB"  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 30 SC 30.14.1.1.5 P 22 L 28 # 20  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 "typeAB" should read "typeB"  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 30 SC 30.14.1.1.5 P 22 L 33 # 21  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 missing a space "...clause 104.4.1.This value..."  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 30 SC 30.14.1.1.5 P 24 L 33 # 22  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 there is no ERROR state. Should be OVERLOAD state.  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Search and replace on "ERROR state" and replace with "OVERLOAD state".

Cl 30 SC 30.14.1.4 P 25 L 5 # 23  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 add punctuation to increment rate, ie 100,000 per second  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 30 SC 30.14.1.4 P 25 L 1 # 24  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 aPSECumulativeEnergy should read aPoDLPSECumulativeEnergy  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

CI 45 SC 45.2 P 27 L 25 # 25  
 Gardner, Andrew Linear Technology Cor

Comment Type **TR** Comment Status **D**  
 Bits b.5.15:11 are defined as Reserved w/ value always 0 and Bit m.5.12 is defined as Power Unit present. How can these definitions exist simultaneously?

SuggestedRemedy  
 Change Reserved row from b 5.15:11 to b 5.15:13

Proposed Response Response Status **W**  
 PROPOSED ACCEPT. EZ.

CI 45 SC 45.2.7.a P 28 L 19 # 26  
 Gardner, Andrew Linear Technology Cor

Comment Type **ER** Comment Status **D**  
 missing a space "Status 2register"

SuggestedRemedy  
 See comment

Proposed Response Response Status **W**  
 PROPOSED ACCEPT. EZ.

CI 45 SC 45.2.7.a1 P 28 L 26 # 27  
 Gardner, Andrew Linear Technology Cor

Comment Type **ER** Comment Status **D**  
 missing a period "shown in Table 45-211f The default value"

SuggestedRemedy  
 See comment

Proposed Response Response Status **W**  
 PROPOSED ACCEPT. EZ.

CI 45 SC 45.2.7.a1 P 28 L 28 # 28  
 Gardner, Andrew Linear Technology Cor

Comment Type **ER** Comment Status **D**  
 found the extra period. remove second period @ end of sentence

SuggestedRemedy  
 See comment

Proposed Response Response Status **W**  
 PROPOSED ACCEPT. EZ.

CI 45 SC 45.2.7a.1.2 P 29 L 7 # 29  
 Gardner, Andrew Linear Technology Cor

Comment Type **TR** Comment Status **D**  
 mr\_pse\_enable is not defined in 104.3.3.3 (or anywhere)

SuggestedRemedy  
 Change PSE state machine variable 'pse\_enable' to 'mr\_pse\_enable'.

Proposed Response Response Status **W**  
 PROPOSED ACCEPT. EZ.

Search and replace "pse\_enable" with "mr\_pse\_enable".

CI 45 SC 45.2.7a.2.1 P 30 L 27 # 31  
 Gardner, Andrew Linear Technology Cor

Comment Type **TR** Comment Status **D**  
 there is no ERROR state in the PSE SD. Should be OVERLOAD state.

SuggestedRemedy  
 See comment

Proposed Response Response Status **W**  
 PROPOSED ACCEPT. EZ.

See comment 22.

CI 45 SC 45.2.7a.2.2 P 30 L 32 # 32  
 Gardner, Andrew Linear Technology Cor

Comment Type **TR** Comment Status **D**  
 mr\_valid\_signature is not defined in 104.3.3.3 (or anywhere)

SuggestedRemedy  
 Change PSE state machine variable 'valid\_signature' to 'mr\_valid\_signature'

Proposed Response Response Status **W**  
 PROPOSED ACCEPT. EZ.

Search and replace "valid\_signature" with "mr\_valid\_signature".

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

Cl 45 SC 45.2.7a.2.5 P 30 L 52 # 33  
 Gardner, Andrew Linear Technology Cor

Comment Type **TR** Comment Status **D**  
 there is no ERROR state in the PSE SD. Should be OVERLOAD state here.

SuggestedRemedy  
 See comment

Proposed Response Response Status **W**  
 PROPOSED ACCEPT. EZ.

See comment 22.

Cl 45 SC 45.2.7a.2.8 P 31 L 15 # 34  
 Gardner, Andrew Linear Technology Cor

Comment Type **TR** Comment Status **D**  
 PSE Status is (12.1.2:0), written incorrectly as (12.1.3:1)

SuggestedRemedy  
 See comment

Proposed Response Response Status **W**  
 PROPOSED ACCEPT. EZ.

Cl 45 SC 45.2.7a.2.9 P 31 L 21 # 35  
 Gardner, Andrew Linear Technology Cor

Comment Type **TR** Comment Status **D**  
 PSE Status is (12.1.2:0), written incorrectly as (12.1.3:1)

SuggestedRemedy  
 See comment

Proposed Response Response Status **W**  
 PROPOSED ACCEPT. EZ.

Cl 45 SC 45.2.7a.2.9 P 31 L 23 # 36  
 Gardner, Andrew Linear Technology Cor

Comment Type **TR** Comment Status **D**  
 There is no TEST\_MODE or TEST\_ERROR state defined in the PSE SD (figure 104-4 as referenced)

SuggestedRemedy  
 need to rewrite the paragraph to agree with the states, as the table was modified to agree with them (table for reference below):

- 1 0 0 = Overload
- 0 1 1 = Detecting
- 0 1 0 = Delivering power
- 0 0 1 = Sleeping
- 0 0 0 = Disabled

Delete references to "TEST\_MODE" and "TEST\_ERROR" in 45.2.7a.2.9.

Proposed Response Response Status **W**  
 PROPOSED ACCEPT.

Editorial license granted to make changes as needed.

Cl 45 SC 45.2.7a.2.9 P 31 L 25 # 37  
 Gardner, Andrew Linear Technology Cor

Comment Type **TR** Comment Status **D**  
 error\_condition is not defined in 104.3.3.3 (or anywhere)

SuggestedRemedy  
 propose changing this reference from "error\_condition" to "overload\_detected" in the text and table 45-211g

Proposed Response Response Status **W**  
 PROPOSED ACCEPT.

Cl 45 SC 45.2.7a.3.1 P 32 L 4 # 38  
 Gardner, Andrew Linear Technology Cor

Comment Type **TR** Comment Status **D**  
 PSE Status is (12.1.2:0), written incorrectly as (12.1.3:1)

SuggestedRemedy  
 See comment

Proposed Response Response Status **W**  
 PROPOSED ACCEPT. EZ.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

Cl 104 SC 104.4.6 P 51 L 51 # 39  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 "See 104.4.6.2" is not linked  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 104 SC 104.4.3 P 46 L 33 # 42  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 Table 104-6 should be Figure 104-6  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 104 SC 104.4.6.2 P 52 L 19 # 40  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 There is no Twakeup\_pd in table 104-6  
 SuggestedRemedy  
 Add Twakeup\_pd to table 104-6 with a min of 0.2ms  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 See comment 54.

Cl 104 SC 104.4.3.1 P 46 L 44 # 43  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 tprw\_delay is not defined  
 SuggestedRemedy  
 change to tpowerdly  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 104 SC 104.4.6.4 P 52 L 35 # 41  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 reference to Pclass\_pd in table 104-1. There is no Pclass\_pd but there is a Ppd. Are these the same?  
 SuggestedRemedy  
 Change text from Pclass\_pd to Ppd.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.  
 Use Ppd throughout.

Cl 104 SC 104.4.3.3 P 47 L 51 # 44  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 PPD should be Ppd  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

Cl 104 SC 104.4.3.5 P 48 L 18 # 45  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 returns returns' should be 'returns'  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 104 SC 104.4.6.1 P 52 L 4 # 51  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 The PD shall turn off at a voltage greater than or equal to Voff' should be 'The PD shall turn off at a voltage less than Von(min) and greater than or equal to Voff min as defined in Table 104-6'.  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 104 SC 104.4.3.6 P 49 L 19 # 46  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 DO DETECTION' should be 'DO\_DETECTION'  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 104 SC 104.4.6.2 P 52 L 16 # 52  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 SLEEP\_PENDING' and 'SLEEP' should be 'DISCONNECT' and 'PD\_SLEEP', respectively.  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 104 SC 104.4.3.6 P 49 L 22 # 47  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 sccp\_watchdog\_tmr' should be 'sccp\_watchdog\_timer'  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 104 SC 104.4.6.2 P 52 L 17 # 53  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 Isleep' should be 'Isleep\_PD'  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 104 SC 104.4.3.6 P 49 L 29 # 48  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 sccp\_watchdog\_tmr' should be 'sccp\_watchdog\_timer'  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

Cl 104 SC 104.4.6.2 P 52 L 19 # 54  
 Gardner, Andrew Linear Technology Cor  
 Comment Type **TR** Comment Status **D**  
 Twakeup\_PD' is not defined in table 104-6  
 SuggestedRemedy  
 Add Twakeup\_pd to table 104-6 with a min of 0.2ms  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT.  
 See comment 40.

Cl 104 SC 104.4.6.3 P 52 L 26 # 55  
 Gardner, Andrew Linear Technology Cor  
 Comment Type **E** Comment Status **D**  
 Vport\_PD' should be 'Vpd'  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT. EZ.  
 See 68.

Cl 104 SC 104.4.7 P 53 L 10 # 56  
 Gardner, Andrew Linear Technology Cor  
 Comment Type **TR** Comment Status **D**  
 TMFVDO\_PD is not defined.  
 SuggestedRemedy  
 Change parameter for item 8 in Table 104-6 to "PD Maintain Full Voltage signature duration" and change "TMFVDO\_PD" to "TMFVDO min" and add reference to table 104-3 item 13 in subclause 104.4.7.  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT.

Cl 104 SC 104.4.6 P 51 L 1 # 58  
 Gardner, Andrew Linear Technology Cor  
 Comment Type **ER** Comment Status **D**  
 Table 104-6 title should have 'continued' at top of page 51  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT. EZ.

Cl 104 SC Table 104-1 P 35 L 34 # 60  
 Gardner, Andrew Linear Technology Cor  
 Comment Type **TR** Comment Status **D**  
 Class 0 VPSE(min) is less than VON(min) in Table 104-6  
 SuggestedRemedy  
 Add a new row to Table 104-1 that describes VPSE(min) with no load or increase VON(min) for this class  
 Proposed Response Response Status **W**  
 TFTD.  
 See comment 93.

Cl 104 SC 104.4.3.1 P 46 L 44 # 62  
 Gardner, Andrew Linear Technology Cor  
 Comment Type **ER** Comment Status **D**  
 tpwr\_delay' should be 'tpowerdly'  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT. EZ.



IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

CI 104 SC 104.4.4 P 49 L 42 # 63  
 Gardner, Andrew Linear Technology Cor

Comment Type TR Comment Status D

A PD shall present a valid detection signature when Vpd drops below Vsig\_enable unless it is asleep' should be 'A PD shall present a valid detection signature when Vpd drops below Vsig\_enable.'

SuggestedRemedy

See comment

Proposed Response Response Status W

PROPOSED ACCEPT.

OBE 125.

CI 104 SC 104.4.4 P 49 L 46 # 65  
 Gardner, Andrew Linear Technology Cor

Comment Type ER Comment Status D

Remove indent at beginning of line 46.

SuggestedRemedy

See comment

Proposed Response Response Status W

PROPOSED ACCEPT. EZ.

CI 104 SC 104.4.4 P 49 L 49 # 67  
 Gardner, Andrew Linear Technology Cor

Comment Type TR Comment Status D

There are only two characteristics in table 104-5.

SuggestedRemedy

Delete 'at least' from sentence.

Proposed Response Response Status W

PROPOSED ACCEPT. EZ.

CI 104 SC 104.4.4 P 50 L 5 # 68  
 Gardner, Andrew Linear Technology Cor

Comment Type TR Comment Status D

Vconnector' should just be 'Vpd' in Table 104-4

SuggestedRemedy

See comment

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 104 SC 104.4.4 P 50 L 18 # 69  
 Gardner, Andrew Linear Technology Cor

Comment Type TR Comment Status D

lconnector' should just be 'lpd' in Table 104-5

SuggestedRemedy

See comment

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 104 SC 104.4.6 P 51 L 51 # 70  
 Gardner, Andrew Linear Technology Cor

Comment Type ER Comment Status D

See 104.4.6.2' is not linked

SuggestedRemedy

See comment

Proposed Response Response Status W

PROPOSED ACCEPT. EZ.

CI 104 SC 104.4.6.1 P 52 L 6 # 72  
 Gardner, Andrew Linear Technology Cor

Comment Type TR Comment Status D

Change Vport\_PSE to just Vpse for consistency.

SuggestedRemedy

See comment

Proposed Response Response Status W

PROPOSED ACCEPT.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

Cl 104 SC 104.4.6.2 P 52 L 17 # 73  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 Change 'Isleep' to 'Isleep\_PD'  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 OBE by 104.

Cl 104 SC 104.4.6.2 P 52 L 19 # 74  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 Twakeup\_PD shouldn't wrap at the end of the line.  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 104 SC 104.4.6.3 P 52 L 24 # 75  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status D  
 Consider replacing 'noise' with 'transient' in this subclause.  
 SuggestedRemedy  
 Replace 104.4.6.3 with  
 104.4.6.3 PD ripple and transients  
 The specifications for ripple and transients in Table 104-6 apply to the voltage at the PD PI generated by the PD circuitry. The ripple and transient specifications shall be met for all operating voltages in the range of VPort\_PD, and over the range of input power of the device.  
 The PD shall operate correctly in the presence of ripple and transient voltages generated by the PSE that appears at the PD PI. These levels are specified in Table 104-3. Ripple and transient limits are provided to preserve data integrity.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 See comment 106.

Cl 104 SC 104.4.6.3 P 52 L 26 # 76  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 Replace 'input power of the device' with just 'Ppd'.  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 104 SC 104.4.6.4 P 52 L 35 # 77  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 Replace 'Pclass\_PD' with just 'Ppd'.  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 104 SC 104.4.6.5 P 52 L 44 # 78  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 Remove all instances of 'port\_' from the subscripts used by Equation 104-1.  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 104 SC 104.5.1 P 52 L 18 # 79  
 Gardner, Andrew Linear Technology Cor  
 Comment Type TR Comment Status D  
 A PD shall provide DC isolation...' is not quantified making a compliance test meaningless.  
 SuggestedRemedy  
 Propose "A PD shall ... all MDI leads of greater than 1 megaohm for voltages up to 60V".  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

Cl 104 SC 104.6.3.2 P 56 L 18 # 80  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 Change 'slots' to 'slot' in this sentence.  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 104 SC 104.6.3.4 P 57 L 47 # 85  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 Add 'voltage' to the parameter descriptions for items 2 and 3 in table 104-7.  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 104 SC 104.6.3.4 P 58 L 9 # 87  
 Gardner, Andrew Linear Technology Cor  
 Comment Type ER Comment Status D  
 Add 'time' to parameter descriptions for items 9-15  
 SuggestedRemedy  
 See comment  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

Cl 104 SC 104.7.4 P 62 L 1 # 90  
 Chabot, Craig UNH-IOL  
 Comment Type ER Comment Status D  
 The changes from D1.3 to D1.4 have consequently necessitated changes to the PICS (some shall have either been added, removed, or altered). I have drafted a new, corrected version of the PICS tables.  
 SuggestedRemedy  
 See chabot\_3bu\_1\_1115  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 104 SC Table 104-1 P 32 L 21 # 91  
 Gardner, Andrew Linear Technology  
 Comment Type T Comment Status X  
 The assumption that the reference channel resistance is 15m of 26 AWG is limiting for PoDL.  
 SuggestedRemedy  
 Consider changing the reference channel to 15m of 22 AWG.  
 Proposed Response Response Status W  
 Discuss in room. See comments 60 and 93.

Cl 104 SC 104.1.3 P 34 L 45 # 92  
 Abramson, David Texas Instruments  
 Comment Type ER Comment Status D  
 A PoDL system...is defined as Type A or Type B...A Type A+B system is....  
 How can we have Type A+B if it has to be Type A or Type B?  
 SuggestedRemedy  
 change to: "is defined as either Type A, Type B, or Type A+B. This will match 104.4.1 as well.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

CI 104 SC 104.2 P 35 L 38 # 93  
 Abramson, David Texas Instruments

Comment Type TR Comment Status D

This comment applies to Table 104-1.  
 The VPD min voltages for the 12V unregulated class conflict with the signature enable/disable voltages in Table 104-4. If the PSE is only required to put out 5.6V, the PD may never reach the signature disable threshold (5.75V max). In addition, the if the enable threshold is between 3.6V and 5.75V (for example 4.5V), it may be tripped by a VPD min of 4.4V

SuggestedRemedy

The disable treshhold needs to be lowered to 5.6V. I don't see any downside to this right now, but everything is interconnected...It would make the threshold between Vsig\_disable and Vbad\_hi only +/- 4%, but I don't believe there is anything wrong with disabling the signature below Vbad\_hi.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Discuss in room.

Possibly OBE'd by comment 91.

CI 104 SC 104.3.3.1 P 36 L 28 # 94  
 Abramson, David Texas Instruments

Comment Type ER Comment Status D

"Prior to application of normal operating voltage..." What exactly is "normal"? Clause 33 just says "operating". Why have we added "normal"

SuggestedRemedy

remove "normal" throughout this section (and rest of draft if used in a similar manner).

Proposed Response Response Status W

PROPOSED ACCEPT. EZ.

CI 104 SC 104.3.3.3 P 37 L 42 # 95  
 Abramson, David Texas Instruments

Comment Type TR Comment Status D

The descriptions for TRUE/FALSE of "pi\_powered" have the word shall in them.

SuggestedRemedy

Change wording to match construction of similar variables such as pi\_sleeping.  
 TRUE: The PSE is applying operating voltage to the PI.  
 FALSE: The PSE is not applying...

Proposed Response Response Status W

PROPOSED ACCEPT. EZ.

CI 104 SC 104.3.4.1 P 41 L 38 # 96  
 Abramson, David Texas Instruments

Comment Type ER Comment Status D

This comment applies to Table 104-2.  
 Why is there an additional information column if we don't have anything in it.

SuggestedRemedy

Either delete the column, or add appropriate information.

Proposed Response Response Status W

Discuss in room.

Table is partially populated with references on the second page. Propose references for items 1-5.

CI 104 SC 104.3.4.1 P 41 L 42 # 97  
 Abramson, David Texas Instruments

Comment Type TR Comment Status D

This comment applies to Table 104-2.  
 What is the purpose of the short circuit current in the detection state. The PSE must source a current less than 16mA in this state to be a valid probe current. In addition, the PD needs to be able to sink enough current during SCCP and allowing the PSE to source 30mA seems like a bad idea.

SuggestedRemedy

Remove item 2 from table. Add text that 16mA is the most the PSE is allowed to source while in the detection state.

Proposed Response Response Status W

Discuss in room. Larger short circuit limit allows for resistive pull-up.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

CI 104 SC 104.3.6 P 42 L 41 # 98  
 Abramson, David Texas Instruments  
 Comment Type ER Comment Status D  
 "prior to application of full operating voltage..."  
 Suggested Remedy  
 add space in "of full"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT. EZ.

CI 104 SC 104.3.6 P 44 L 13 # 99  
 Abramson, David Texas Instruments  
 Comment Type TR Comment Status D  
 This comment applies to Table 104-3 (continued).  
 The MVFS threshold is the same same as for existing AT PoE, but the operating current can be more than twice as high (1.36A according to Table 104-1).  
 In addition, even the new BT standard has doubled the MPS window width (4-14mA) for a maximum load current of 1.73A (1.27x larger than PoDL).  
 I believe PDs need to drop their current to below 2mA in sleep mode (actually Isleep\_pd is 100uA), so why not lower the minimum?  
 Suggested Remedy  
 Increase the MVFS current range from (5mA to 10mA) to (2mA to 10mA).  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 Discuss in room.  
 2mA MFVS min may be too close to wakeup max of 1.85mA. Is 3mA OK?

CI 104 SC 104.4.4 P 50 L 6 # 100  
 Abramson, David Texas Instruments  
 Comment Type TR Comment Status D  
 This comment applies to Table 104-4.  
 The PD must be capable of producing a "Vgood" shunt for a 17mA current (item 1 of the table), but must draw less than 20mA whenever the Voltage is less than Vsig\_disable (Isignature\_limit).  
 This requires a current limit between 17mA and 20mA (+/- 8%). I believe this puts unnecessary requirements on the PD that will increase its cost.

Suggested Remedy  
 Change Isignature\_limit to 22mA.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 Discuss in room.  
 This limit does need to be increased since the probe current was increased.

CI 104 SC 104.6.3.4 P 57 L 50 # 101  
 Abramson, David Texas Instruments  
 Comment Type TR Comment Status D  
 This comment applies to Table 104-7.  
 The minimum sink current needs to be updated as the maximum probe current is now 16mA  
 Suggested Remedy  
 Change minimum Sink Current from 10mA to 18mA to include the 16mA sourcing current and some margin.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 Discuss in room. See comment 100.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

CI 104 SC 104.6.3.4 P 57 L 50 # 102  
 Abramson, David Texas Instruments

Comment Type **TR** Comment Status **D**

This comment applies to Table 104-7.  
 "Vport < 0.8V" in the additional information column for "Sink Current" does not seem right.  
 How can the Sink Current have a minimum when the PI voltage is 0? There will be no current drawn then.

SuggestedRemedy

Should the "<" be a ">"? I think that is what was meant...

Proposed Response Response Status **W**

PROPOSED ACCEPT IN PRINCIPLE.

This parameter may need to be replaced with a VOL specification instead.

CI 104 SC 104.3.6 P 44 L 15 # 103  
 Abramson, David Texas Instruments

Comment Type **ER** Comment Status **D**

This comment applies to Table 104-3.  
 Section 104.3.6.2.2.1 is referenced in the additional information column for the sleep mode requirements. That section does not exist.

SuggestedRemedy

Change "104.3.6.2.2.1" to "104.3.6.2.2"

Proposed Response Response Status **W**

PROPOSED ACCEPT. EZ.

CI 104 SC 104.4.6 P 51 L 49 # 104  
 Abramson, David Texas Instruments

Comment Type **TR** Comment Status **D**

This comment applies to Table 104-6.  
 Item 11 (sleep current) is never referenced in the specification text. It is definitely not it 104.4.7 which the additional information column points the reader to.  
 Isleep is referenced in 104.4.6.2. I believe that should be Isleep\_pd

SuggestedRemedy

Change "Isleep" to "Isleep\_PD" in section 104.4.6.2 and change reference in table 104-6 to this section.

Proposed Response Response Status **W**

PROPOSED ACCEPT.

See comment 73.

CI 104 SC 104.4.6 P 51 L 41 # 105  
 Abramson, David Texas Instruments

Comment Type **ER** Comment Status **D**

This comment applies to item 7 of table 104-6.  
 We need to reference section 104.4.6.1 for the inrush enable delay time (tpower\_dly)

SuggestedRemedy

Add "104.4.6.1" to additional information column.

Proposed Response Response Status **W**

PROPOSED ACCEPT. EZ.

CI 104 SC 104.4.6 P 50 L 44 # 106  
 Abramson, David Texas Instruments

Comment Type **ER** Comment Status **D**

This comment applies to Items 1 and 2 of Table 104-6.  
 The section referenced in the additional information column (104.4.6.3) do not mention dl/dt or dV/dt requirements at all.

SuggestedRemedy

Add section to explain these specs (if needed) and correct the section referenced. Or remove the additional information reference.

Proposed Response Response Status **W**

PROPOSED ACCEPT IN PRINCIPLE.

See comment 75.

CI 104 SC 104.4.6 P 50 L 52 # 107  
 Abramson, David Texas Instruments

Comment Type **ER** Comment Status **D**

This comment applies to Item 3 of Table 104-6.  
 The section referenced in the additional information column is the PSE section not the PD section.

SuggestedRemedy

Change reference from "104.3.6.3" to "104.4.6.3"

Proposed Response Response Status **W**

PROPOSED ACCEPT. EZ.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

Cl 104 SC 104.3.6 P 43 L 7 # 108  
Abramson, David Texas Instruments

Comment Type ER Comment Status D

This comment applies to the additional information column in Table 104-3. Be consistant with the "and" when multiple sections/tables are referenced. Currently both "and" and "&" are used.

SuggestedRemedy

Replace all "and"s and "&"s with commas.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. EZ.

Replace "&" with "and" throughout the tables.

Cl 104 SC 104.3.6 P 43 L 15 # 109  
Abramson, David Texas Instruments

Comment Type ER Comment Status D

This comment applies to Item 3 in Table 104-3. Section 104.3.6.1 (additional information column) doesn't mention anything about dV/dt.

SuggestedRemedy

Add section to explain these specs (if needed) and correct the section referenced. Or remove the additional information reference.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Should reference 104.3.6.3. Change subclause title to "PSE ripple and transients".

Cl 104 SC 104.3.4.2 P 42 L 19 # 110  
Abramson, David Texas Instruments

Comment Type TR Comment Status D

"A PSE shall accpet as a valid PD signature a link segment with a constant voltage in the range of Vgood\_PSE for at least..."  
Does the PSE really have to check if the voltage is absolutely constant? Don't we really mean the the voltage has to be in the range of Vgood\_PSE for a certain amount of time?

SuggestedRemedy

remove the word "constant". Remove all similar uses of the word "constant".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Will delete 'constant' in 104.3.4.2. TFTD other occurences.

Cl 104 SC 104.3.3.6 P 40 L 10 # 111  
Abramson, David Texas Instruments

Comment Type ER Comment Status D

This comment applies to figure 104-4, IDLE state. Why are we calling out pi\_detecting and pi\_powered as set to FALSE? There is no way to get to IDLE with those set to TRUE. We don't call out pi\_discharge\_en.

SuggestedRemedy

remove pi\_powered and pi\_detecting assignments from IDLE.

Proposed Response Response Status W

PROPOSED ACCEPT. EZ.

Cl 104 SC 104.3.3.6 P 40 L 16 # 112  
Abramson, David Texas Instruments

Comment Type TR Comment Status D

This comment applies to figure 104-4, DETECTION state. The "start Tdet" assignment is missing.

SuggestedRemedy

Add "start Tdet" to the DETECTION state.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The tdet stop and start assigments were moved to the detection state machine shown in figure 104-5 on page 41.

Cl 104 SC 104.3.3.6 P 40 L 21 # 113  
Abramson, David Texas Instruments

Comment Type TR Comment Status X

This comment applies to figure 104-4, DETECTION state. The tdet\_timer\_done exit arc should go straight to idle. There is no reason for the 0.5s error delay in this case.

SuggestedRemedy

have exit arc go straight to IDLE (may need to add proper assignments back to the IDLE state). Change text in 104.3.4 so that the restart delay is not needed.

Proposed Response Response Status W

TFTD.

Restart delay for this arc was retained so aPoDLPSEInvalidSignatureCounter max update rate was 2Hz. This allows counter to be potentially implemented outside of PSE, i.e. PSE is only required to provide invalid signature status bit.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

Cl 104 SC 104.3.3.6 P 40 L 27 # 114  
Abramson, David Texas Instruments

Comment Type TR Comment Status D

This comment applies to Figure 104-4.  
I believe we need an exit from the classification state if the tclass timer expires

SuggestedRemedy

Add arc back to Restart from classification for the condition of tclass\_timer\_done

Proposed Response Response Status W

PROPOSED ACCEPT. EZ.

Cl 104 SC 104.3.3.6 P 40 L 37 # 115  
Abramson, David Texas Instruments

Comment Type TR Comment Status D

This comment applies to Figure 104-4.  
I believe the wrong timer is turned off inside POWER\_ON.

SuggestedRemedy

Change "stop toff timer" to "stop tinrush timer"

Proposed Response Response Status W

PROPOSED REJECT.

Stop toff\_timer is correct since it is resetting the toff timer in preparation for the exit arc into the SETTLE\_SLEEP state.

Cl 104 SC 104.3.3.6 P 40 L 48 # 116  
Abramson, David Texas Instruments

Comment Type ER Comment Status D

This comment applies to Figure 104-4.  
Do we need to call out values for pi\_sleeping and pi\_powered if they haven't changed from the previous state? I think no.

SuggestedRemedy

Remove pi\_sleeping and pi\_powered assignments in the sleep state. The whole state machine should be checked for this situation. The overload state has the same problem.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Remove superfluous pi\_sleeping and pi\_powered assignments in SETTLE\_SLEEP.

Retain assignments in OVERLOAD state since the overload\_detected entry arc has multiple entry points.

Cl 104 SC 104.3.3.6 P 40 L 28 # 117  
Abramson, David Texas Instruments

Comment Type TR Comment Status D

This comment applies to Figure 104-4.  
!power\_not\_available needs to be anded with valid\_class for the transition from classification\_eval to power\_up. Otherwise a valid\_class with power\_not\_available would branch in both directions at once.

SuggestedRemedy

change transition from "valid\_class" to !power\_not\_available \* valid\_class.

Proposed Response Response Status W

PROPOSED ACCEPT.

See comment 7.

Cl 104 SC 104.3.3.3 P 38 L 1 # 118  
Abramson, David Texas Instruments

Comment Type ER Comment Status D

power\_not\_available is the only variable we use in the negative

SuggestedRemedy

Change power\_not\_available to power\_available and update state diagram accordingly.

Proposed Response Response Status W

PROPOSED ACCEPT. EZ.



IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

Cl 104 SC 104.3.3.3 P 37 L 51 # 119  
Abramson, David Texas Instruments

Comment Type TR Comment Status D

The difference between power\_applied and pi\_powered is not clear

SuggestedRemedy

Explain the difference or consolidate them into one variable and update state diagram accordingly.

Proposed Response Response Status W

PROPOSED REJECT.

PI\_POWERED<=TRUE first occurs in POWER\_UP state.

The definition of power\_applied is:

TRUE: the PSE has begun steady state operation.

FALSE: the PSE is either not applying full operating voltage or has begun applying full operating voltage but is still in the POWER\_UP state.

These conventions were inherited from PoE.

Cl 104 SC 104.3.3.6 P 40 L 24 # 120  
Abramson, David Texas Instruments

Comment Type TR Comment Status D

This comment applies to Figure 104-4.

Since pi\_detecting is not set to false during classification, the separate detection state machine must be running during classification. The PSE detection output specs must still apply during classification, but the signature state machine doesn't need to run.

SuggestedRemedy

Fix the stand alone detection state diagram (Figure 104-5) so that it does not run in classification.

Proposed Response Response Status W

TFTD.

What's currently in the state machine isn't broken (see below). We could add a pi\_classifying variable to further clarify if needed.

The pi\_detecting = TRUE condition causes the PSE to apply a voltage limited detection current at the PI which is needed for classification. Since the signature was valid before entering classification, the fact that the tdet\_timer will expire during classification because the detection state machine is running doesn't matter.

Cl 104 SC 104.3.4.1 P 41 L 32 # 121  
Abramson, David Texas Instruments

Comment Type ER Comment Status D

Poor wording: "All detection currents at the PI shall be within the lvalid current range as specified in Table 104-2 with a valid PD detection signature connected as specified in Table 104-4.

SuggestedRemedy

Reword: "All detection currents at the PI shall be within the lvalid current range, as specified in Table 104-2, when connected to a valid PD detection signature as specified in Table 104-4."

Proposed Response Response Status W

PROPOSED ACCEPT. EZ.

Cl 104 SC 104.3.6 P 42 L 51 # 122  
Abramson, David Texas Instruments

Comment Type TR Comment Status D

"The output of a PSE shall conform to the electrical requirements in Table 104-3 in both powered and unpowered modes to ensure that it does not present a valid PD detection signature."

This sentence seems to indicate the PSE must follow all the specs in 104-3 even when unpowered. That seems like an odd thing for a lot of the specs.

SuggestedRemedy

Reword: In all states, a PSE shall present an invalid PD signature as specified in Table 104-5.

Proposed Response Response Status W

PROPOSED ACCEPT. EZ.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

CI 104 SC 104.3.6.2.1 P 45 L 4 # 123  
Abramson, David Texas Instruments

Comment Type TR Comment Status D

"Measurements of Iport during a short circuit condition shall be made 1ms after the initial transient to allow for settling."  
This sentence allows unlimited current flow for 1ms. How can PDs be designed to handle the I<sup>2</sup>t if they don't know the I?

SuggestedRemedy

A template/equation/something is needed to allow PD designers to understand the transients.

Proposed Response Response Status W

TFTD.

104.5.2 Fault tolerance

"The PSE PI shall withstand without damage the application of short circuits between the wires within the cable for an indefinite period of time."

PD faults are out of scope. A designer should design a PD to withstand an internal fault.

CI 104 SC 104.3.6.4 P 45 L 23 # 124  
Abramson, David Texas Instruments

Comment Type TR Comment Status D

"The specification for Tinrush in Table 104-3 applies to the PSE power up time allowed for a PD after completion of detection."  
The Tinrush timer does not start until after an optional classification cycle.

SuggestedRemedy

Change senece to: "...after completion of detection and optional classification."

Proposed Response Response Status W

PROPOSED ACCEPT. EZ.

CI 104 SC 104.4.4 P 49 L 42 # 125  
Abramson, David Texas Instruments

Comment Type TR Comment Status D

"A PD shall present a valid detection signature when VPD drops below Vsig\_enable unless it is asleep."  
What is "asleep"? How do we test that?

SuggestedRemedy

Define "asleep" in terms of the state diagram or other defined terms in the standard. OR remove "unless it is asleep".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Delete "unless it is asleep" in referenced text.

See comment 63.

CI 104 SC 104.4.3.3 P 47 L 22 # 126  
Abramson, David Texas Instruments

Comment Type TR Comment Status D

variable POR is poorly defined.  
Is power-on reset defined somewhere? This is a data spec after all.

SuggestedRemedy

Change variable to something like "pd\_reset" as in PoE. See Clause 33 for proper text.

Proposed Response Response Status W

PROPOSED ACCEPT.

Replace POR with pd\_reset and define as in 802.3at:  
"An implementation-specific control variable that unconditionally resets the PD state diagram to the RESET state.  
Values:  
TRUE: The device has been reset.  
FALSE: The device has not been reset (default)."

Editorial license to fix PD state machine accordingly.

IEEE802.3bu D2.0 One Pair Power over Datalines 9th Task Force review comments

CI 104 SC 104.4.3.3 P 47 L 26 # 127  
Abramson, David Texas Instruments

Comment Type ER Comment Status D

The definitions of the "present\_XXX" variables are poor.

SuggestedRemedy

Change definition of TRUE and FALSE for present\_det\_sig, present\_iwakeup, and present\_mfvs from "present the xxx signature" and "do not present the xxx signature." to: "the xxx signature is to be applied to the PD PI." and "the xxx signature is not to be applied to the PD PI."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Use the active voice instead:

"the xxx signature is applied to the PD PI." and "the xxx signature is not applied to the PD PI."

CI 104 SC 104.4.3.6 P 49 L 26 # 128  
Abramson, David Texas Instruments

Comment Type TR Comment Status D

This comment applies to Figure 104-6.

The state diagram requires the pd\_fault variable to be set to true when fault\_detected occurs. What is fault\_detected? How can I design a PD to do this?

SuggestedRemedy

Add appropriate definitions for fault\_detected and pd\_fault.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change fault\_detected TRUE definition to read as:

"TRUE: the PD no longer requires power as the result of an implementation specific error condition."

Example: The PD has gone offline due to a thermal overload and needs to cool off.

CI 104 SC 104.4.6.1 P 52 L 20 # 129  
Abramson, David Texas Instruments

Comment Type ER Comment Status D

We should avoid using numbers in the text, but rather create parameters to reference. VPI has a direct range in the text (3.1 to 3.5V).

SuggestedRemedy

Either create a parameter for this voltage range, or reference the PSE sleep voltage (but its not quite the same due to cable drop).

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change 104.4.6.2 text as follows:

"A PD that requires ... when Vsleep\_PD min < Vpd < Vsleep max as specified in Tables 104-4 and 104-6."

See comments 55, 68 regarding usage of Vpd.

CI 104 SC 104.6.1 P 54 L 27 # 130  
Abramson, David Texas Instruments

Comment Type ER Comment Status D

We shouldn't call out a direct implementation.

SuggestedRemedy

Change "the master device" to "a master device" or "an example of the master device"

Proposed Response Response Status W

PROPOSED ACCEPT. EZ.

Change reference text to "the block diagram of a master device."

CI 104 SC 104.6.3.1 P 55 L 38 # 131  
Abramson, David Texas Instruments

Comment Type ER Comment Status D

This paragraph seems to have a different line spacing than the rest

SuggestedRemedy

Fix if this is true.

Proposed Response Response Status W

PROPOSED ACCEPT. EZ.