Cl 30 SC 30.14.1 Gardner, Andrew	P 20 Linear Technol	L 50 logy Cor	# [18	C/ 30 SC 30.14.1.1.5 P 24 L 33 Gardner, Andrew Linear Technology Cor	# [22
Comment Type ER Missing period at end of	Comment Status R of sentence.		resubmit	Comment Type TR Comment Status R there is no ERROR state. Should be OVERLOAD state.	resubmit
SuggestedRemedy See comment				SuggestedRemedy See comment	
Response REJECT. EZ.	Response Status C			Response Response Status C REJECT.	
C/ 30 SC 30.14.1.1		L 12	# [19	Search and replace on "ERROR state" and replace with "OVERLOAD	state".
Gardner, Andrew Comment Type TR	0 ,	resubmit	C/ 30 SC 30.14.1.4 P25 L1	# 24	
"typeAB" should read "t SuggestedRemedy See comment	typeB"		resubmit	Gardner, Andrew Linear Technology Cor Comment Type TR Comment Status R aPSECumulativeEnergy should read aPoDLPSECumulativeEnergy SuggestedRemedy	resubmit
Response REJECT. EZ.	Response Status C			See comment Response Response Status C	
Cl 30 SC 30.14.1.1 Gardner, Andrew	.5 P 22 Linear Technol	<i>L</i> 28 ogy Cor	# 20	REJECT. EZ. C/ 30 SC 30.14.1.4 P 25 L 5	# 23
	Comment Status R eB"		resubmit	Gardner, Andrew Linear Technology Cor Comment Type ER Comment Status R	# 23
SuggestedRemedy See comment				add punctuation to increment rate, ie 100,000 per second SuggestedRemedy	resubiliit
Response REJECT. EZ.	Response Status C			See comment Response Response Status C	
C/ 30 SC 30.14.1.1 Gardner, Andrew	.5 P 22 Linear Technol	L 33 logy Cor	# 21	REJECT. EZ.	
Comment Type ER missing a space "clau	Comment Status R use 104.4.1.This value"		resubmit		
SuggestedRemedy See comment					

Response Status C

Response

REJECT. EZ.

C/ 45 SC 45.2 P 27 L 25 # 25 C/ 45 SC 45.2.7a.1.2 P 29 L7 # 29 Gardner, Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Status R resubmit Comment Type TR resubmit Comment Type TR Comment Status R Bits b.5.15:11 are defined as Reserved w/ value always 0 and Bit m.5.12 is defined as mr_pse_enable is not defined in 104.3.3.3 (or anywhere) Power Unit present. How can these definitions exist simultaneously? SuggestedRemedy SuggestedRemedy Change PSE state machine variable 'pse_enable' to 'mr_pse_enable'. Change Reserved row from b 5.15:11 to b 5.15:13 Response Response Status C Response Response Status C REJECT, EZ. REJECT. EZ. Search and replace "pse_enable" with "mr_pse_enable". Cl 45 SC 45.2.7.a P 28 L 19 # 26 Cl 45 L 15 SC 45.2.7a.2 P 30 # 30 Linear Technology Cor Gardner, Andrew Gardner, Andrew Linear Technology Cor Comment Type ER Comment Status R resubmit Comment Type T Comment Status D prewithdrawn missing a space "Status 2register" consider adding a PSE Status of "unknown" to match the available options in Section 30 SuggestedRemedy (see P21, L32 for an example) See comment SuggestedRemedy Response Response Status C See comment REJECT. EZ. Proposed Response Response Status Z REJECT. Cl 45 SC 45.2.7.a1 P 28 L 26 # 27 Gardner, Andrew Linear Technology Cor This comment was WITHDRAWN by the commenter. Comment Type ER Comment Status R resubmit missing a period "shown in Table 45-211f The default value" Cl 45 SC 45.2.7a.2.1 P 30 L 27 SuggestedRemedy Gardner, Andrew Linear Technology Cor See comment Comment Status R Comment Type TR resubmit Response Response Status C there is no ERROR state in the PSE SD. Should be OVERLOAD state. REJECT, F7. SuggestedRemedy See comment C/ 45 SC 45.2.7.a1 P 28 # 28 L 28 Response Gardner, Andrew Linear Technology Cor Response Status C REJECT. EZ. Comment Type ER Comment Status R resubmit found the extra period. remove second period @ end of sentence See comment 22. SuggestedRemedy See comment Response Response Status C

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

REJECT. EZ.

C/ **45** SC **45.2.7a.2.1** Page 2 of 23 12/14/2015 4:44:11 PM

C/ 45 SC 45.2.7a.2.2 P 30 L 32 # 32 C/ 45 SC 45.2.7a.2.9 P 31 L 21 # 35 Gardner, Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Type TR Comment Status R Comment Status R resubmit Comment Type TR resubmit mr_valid_signature is not defined in 104.3.3.3 (or anywhere) PSE Status is (12.1.2:0), written incorrectly as (12.1.3:1) SuggestedRemedy SuggestedRemedy Change PSE state machine variable 'valid_signature' to 'mr_valid_signature' See comment Response Response Response Status C Response Status C REJECT, EZ. REJECT, EZ. Search and replace "valid_signature" with "mr_valid_signature". Cl 45 SC 45.2.7a.2.9 P 31 L 23 # 36 Gardner, Andrew Linear Technology Cor Cl 45 # 33 SC 45.2.7a.2.5 P 30 L 52 Comment Type TR Comment Status A fix Gardner. Andrew Linear Technology Cor There is no TEST MODE or TEST ERROR state defined in the PSE SD (figure 104-4 as Comment Type TR Comment Status R resubmit referenced) there is no ERROR state in the PSE SD. Should be OVERLOAD state here. SuggestedRemedy SuggestedRemedy need to rewrite the paragraph to agree with the states, as the table was modified to agree See comment with them (table for reference below): Response Response Status C 100 = OverloadREJECT. EZ. 0.11 = Detecting0.10 = Delivering powerSee comment 22. 0.01 = Sleeping0.00 = DisabledCl 45 SC 45.2.7a.2.8 P 31 L 15 # 34 Gardner, Andrew Linear Technology Cor Delete references to "TEST MODE" and "TEST ERROR" in 45.2.7a.2.9. Response Response Status C Comment Type TR Comment Status R resubmit PSE Status is (12.1.2:0), written incorrectly as (12.1.3:1) ACCEPT. SuggestedRemedy Editorial license granted to make changes as needed. See comment Cl 45 SC 45.2.7a.2.9 P 31 L 25 # 37 Response Response Status C Gardner, Andrew Linear Technology Cor REJECT. EZ. Comment Type TR Comment Status R resubmit 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 Response Response Status C

REJECT.

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ **45** SC **45.2.7a.2.9** Page 3 of 23 12/14/2015 4:44:11 PM

C/ 45 SC 45.2.7a.3.1 P 32 L 4 # 38 C/ 104 SC 104.2 P 35 L 38 # 93 Gardner. Andrew Linear Technology Cor Abramson, David **Texas Instruments** Comment Status R Comment Type TR resubmit Comment Type TR Comment Status A PSE Status is (12.1.2:0), written incorrectly as (12.1.3:1) This comment applies to Table 104-1. The VPD min voltages for the 12V unregulated class conflict with the signature SuggestedRemedy enable/disable voltages in Table 104-4. If the PSE is only required to put out 5.6V, the PD See comment 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 Response Response Status C REJECT, EZ. SuggestedRemedy The disable treshold needs to be lowered to 5.6V. I don't see any downside to this right Cl 49 SC 49 P 49 L 32 # 50 now. but everything is interconnected...It would make the threshold between Vsig_disable Gardner, Andrew Linear Technology Cor and Vbad_hi only +/- 4%, but I don't believe there is anything wrong with disabling the Comment Type E Comment Status D prewithdrawn signature below Vbad hi. Use '&' instead of '*' to denote a logical AND Response Response Status C ACCEPT IN PRINCIPLE. SuggestedRemedy See comment Table 104-4 items 3 and 4 Proposed Response Response Status Z Vsig disable (min) = 4.6V REJECT. Vsig_enable (max) = 4.3V This comment was WITHDRAWN by the commenter. C/ 104 P 36 # 94 SC 104.3.3.1 L 28 Abramson, David **Texas Instruments** C/ 104 SC 104.1.3 P 34 L 45 # 92 Abramson, David Texas Instruments Comment Type ER Comment Status R ER Comment Status R "Prior to application of normal operating voltage..." What exactly is "normal"? Clause 33 Comment Type resubmit just says "operating". Why have we added "normal" 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 SuggestedRemedy remove "normal" throughout this section (and rest of draft if used in a similar manner). change to: "is defined as either Type A, Type B, or Type A+B. This will match 104.4.1 as Response Response Status C well. REJECT. EZ. Response Response Status C REJECT, EZ.

resubmit

fix

C/ 104 SC 104.3.3.3 P 37 L 42 # 95 C/ 104 SC 104.3.3.3 P 38 L 1 # 118 Abramson, David Texas Instruments Abramson, David Texas Instruments Comment Status A fix Comment Status R Comment Type TR Comment Type ER resubmit The descriptions for TRUE/FALSE of "pi_powered" have the word shall in them. power_not_available is the only variable we use in the negative SuggestedRemedy SuggestedRemedy Change wording to match construction of similar variables such as pi sleeping. Change power not available to power available and update state diagram accordingly. TRUE: The PSE is applying operating voltage to the PI. Response Response Status C FALSE: The PSE is not applying... REJECT, FZ. Response Response Status C ACCEPT. C/ 104 SC 104.3.3.6 P 40 L 10 # 111 Abramson, David Texas Instruments SC 104.3.3.3 P 37 L 51 C/ 104 # 119 Comment Type ER Comment Status R resubmit Abramson, David Texas Instruments This comment applies to figure 104-4, IDLE state. Comment Type TR Comment Status R resubmit Why are we calling out pi_detecting and pi_powered as set to FALSE? There is no way to The difference between power_applied and pi_powered is not clear get to IDLE with those set to TRUE. We don't call out pi discharge en. SuggestedRemedy SugaestedRemedy Explain the difference or consolidate them into one variable and update state diagram remove pi_powered and pi_detecting assignments from IDLE. accordingly. Response Response Status C Response Response Status C REJECT. EZ. REJECT. SC 104.3.3.6 C/ 104 P 40 L 16 # 112 Explain the difference better? Use new names that are unique to PoDL and are more Abramson, David **Texas Instruments** meaningful. For example, power stable? Comment Type TR Comment Status R resubmit PI POWERED<=TRUE first occurs in POWER UP state. This comment applies to figure 104-4, DETECTION state. The "start Tdet" assignment is missing.

SuggestedRemedy

Add "start Tdet" to the DETECTION state.

Response Status C

REJECT.

Change Figure 104-5 to Figure 104-4 cont'd.

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

The definition of power applied is:

TRUE: the PSE has begun steady state operation.

These conventions were inherited from PoE.

operating voltage but is still in the POWER UP state.

FALSE: the PSE is either not applying full operating voltage or has begun applying full

reiect

C/ 104 SC 104.3.3.6 P 40 L 21 # 113

Abramson, David Texas Instruments

Abramson, David Texas Instruments

Comment Type TR Comment Status R

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.

Response Status C

REJECT. 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.

Cl 104 SC 104.3.3.6 P40 L 24 # 120

Abramson, David Texas Instruments

Comment Type TR Comment Status D withdrawn

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 Status Z

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

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 104.3.3.6 P 40 L 27 # 114

Abramson, David Texas Instruments

Comment Type TR Comment Status A

ent Status A fix

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

Response Status C

ACCEPT.

Change "do_classification_done" to "tclass_timer_done+do_classification_done" in exit of CLASSIFICATION

C/ 104 SC 104.3.3.6 P40 L28 # 117

Abramson, David Texas Instruments

Comment Type TR Comment Status A fix

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.

Response Status C

ACCEPT.

See comment 7 and 118.

withdrawn

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 Status Z

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Stop toff_timer is correct since it is resetting the toff timer in preparation for the exit arc into the SETTLE SLEEP state.

C/ 104 SC 104.3.3.6 P40 L48 # 116

Abramson, David Texas Instruments

Comment Type ER Comment Status R resubmit

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.

Response Response Status C

REJECT.

Remove superfluous pi_sleeping and pi_powered assignments in SETTLE_SLEEP.

Remove pi detecting and pi powered in IDLE state.

Remove pi powered and pi sleeping from SLEEP state.

Retain assignments in OVERLOAD state since the overload_detected entry arc has multiple entry points.

C/ 104 SC 104.3.3.6 P42 L 30 # 7

Dove, Daniel Dove Networking Solut

Comment Type TR Comment Status D withdrawn

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 Z

REJECT.

This comment was WITHDRAWN by the commenter.

C/ 104 SC 104.3.3.6 P42 L33 # 8

Dove, Daniel Dove Networking Solut

Comment Type T Comment Status R resubmit

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.

Response Status C

REJECT.

See comment 119.

Assigning TRUE to pi_powered during POWER_UP state is consistent with what is done in PoE.

C/ 104 SC 104.3.3.6 P 42 L 48 # 11 C/ 104 SC 104.3.3.6 P **42** L 48 # 9 Dove. Daniel Dove Networking Solut Dove. Daniel Dove Networking Solut Comment Status D Comment Type withdrawn Comment Type TR Comment Status R resubmit Minor Nit: Coming out of OVERLOAD is a UCT, but I would argue that you will not come In SLEEP state, pi_sleeping<=TRUE and pi_powered<=FALSE assignments are out of this state if overload detected is true. redundant. The SETTLE SLEEP state asserts these values and there is no other way into the SLEEP state, so they are redundant. SuggestedRemedy SuggestedRemedy Therefore, suggest that you replace UCT with !overload_detected. Remove those two value assignments Proposed Response Response Status Z Response Response Status C REJECT. REJECT. This comment was WITHDRAWN by the commenter. OBF 116. C/ 104 SC 104.3.4.1 P 41 L 32 # 121 Once the OVERLOAD state has been entered, power is removed from the PI, and the only Abramson, David **Texas Instruments** way to re-apply power is to follow the existing arcs. That is the intent, hence the UCT. Comment Type ER Comment Status R resubmit C/ 104 P **42** L 48 # 12 SC 104.3.3.6 Poor wording: "All detection currents at the PI shall be within the Ivalid current range as Dove, Daniel Dove Networking Solut specified in Table 104-2 with a valid PD detection signature connected as specified in Table 104-4. Comment Type Comment Status R resubmit SuggestedRemedy VERY Minor Nit: The arc logic from RESTART and RESTART DELAY statements are too Reword: "All detection currents at the PI shall be within the Ivalid current range, as close to the boxes, causing the "_" characters to be partially obscured. specified in Table 104-2, when connected to a valid PD detection signature as specified in SuggestedRemedy Table 104-4." Move the arc statements up a tiddly bit. Response Response Status C Response Response Status C REJECT, EZ. REJECT. EZ. C/ 104 SC 104.3.4.1 P 41 L 38 # 96 SC 104.3.3.6 P 42 C/ 104 / 48 # 10 Abramson, David Texas Instruments Dove. Daniel Dove Networking Solut Comment Type Comment Status R ER reiect Comment Type TR Comment Status A fix This comment applies to Table 104-2. Why is there an additional information column if we don't have anything in it. 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 SuggestedRemedy state. Either delete the column, or add appropriate information. SuggestedRemedy Response Response Status C Remove "stop ted_timer" from OVERLOAD state unless your objective is to clear the REJECT. tod timer done conditions. If so, correct the name of the timer. Response Response Status C Table is partially populated with references on the second page. Propose references for ACCEPT. items 1-5.

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

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C/ 104 SC 104.3.4.1 P 41 L 42 # 97 C/ 104 SC 104.3.6 P 42 L 41 # 98 Abramson, David Texas Instruments Abramson, David Texas Instruments Comment Status A fix Comment Type TR Comment Type ER Comment Status R resubmit This comment applies to Table 104-2. "prior to application offull operating voltage..." What is the purpose of the short circuit current in the detection state. The PSE must SuggestedRemedy 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 add space in "of full" 30mA seems like a bad idea. Response Response Status C SuggestedRemedy REJECT, EZ. Remove item 2 from table. Add text that 16mA is the most the PSE is allowed to source while in the detection state. C/ 104 SC 104.3.6 P 42 L 51 # 122 Abramson, David **Texas Instruments** Response Response Status C ACCEPT. Comment Type TR Comment Status A fix "The output of a PSE shall conform to the electrical requirements in Table 104-3 in both Change item 2 max to 20mA in Table 104-2 powered and unpowered modes to ensure that it does not present a valid PD detection signature." C/ 104 SC 104.3.4.2 P 42 L 19 # 110 This sentence seems to indicate the PSE must follow all the specs in 104-3 even when Abramson, David **Texas Instruments** unpowered. That seems like an odd thing for a lot of the specs. Comment Type TR Comment Status A fix SuggestedRemedy "A PSE shall accept as a valid PD signature a link segment with a constant voltage in the Reword: In all states, a PSE shall present an invalid PD signature as specified in Table range of Vgood_PSE for at least..." 104-5. Does the PSE really have to check if the voltage is absolutely constant? Don't we really Response Response Status C mean the the voltage has to be in the range of Vgood PSE for a certain amount of time? ACCEPT IN PRINCIPLE. SuggestedRemedy remove the word "constant". Remove all similar uses of the word "constant". "Under all conditions, a PSE shall present an invalid PD signature as specified in Table 104-5." Response Response Status C ACCEPT. C/ 104 SC 104.3.6 P 43 L 7 # 108 Abramson, David **Texas Instruments** Will delete 'constant' in 104.3.4.2 and 104.3.4.3. Comment Type Comment Status R resubmit C/ 104 SC 104.3.5 P **42** L 41 # 13 This comment applies to the additional information column in Table 104-3. Gardner. Andrew Linear Technology Cor Be consistant with the "and" when multiple sections/tables are referenced. Currently both "and" and "&" are used. Comment Type ER Comment Status R resubmit SuggestedRemedy Separate "offull" into "of" and "full" Replace all "and"s and "&"s with commas. SuggestedRemedy Response Response Status C See comment REJECT, F7. Response Response Status C REJECT. EZ. Replace "&" with "and" throughout the tables.

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

See comment 98.

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C/ 104 SC 104.3.6 P 43 L 14 # 15 C/ 104 SC 104.3.6 P 44 L 9 # 57 Gardner. Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Status R Comment Type TR resubmit Comment Type T Comment Status D Item 3 references subclause 104.3.6.1 but there is nothing there relating to transients. TMFVS min of 60ms is limiting for low power applications SuggestedRemedy SuggestedRemedy Reference 104.3.6.3 instead. Change TMFVS min to a smaller value, 6ms? Proposed Response Response Response Status C Response Status Z REJECT, EZ. REJECT. This comment was WITHDRAWN by the commenter. SC 104.3.6 P 43 L 15 C/ 104 # 109 Abramson, David **Texas Instruments** C/ 104 SC 104.3.6 P 44 L 13 Comment Type ER Comment Status R resubmit # 99 This comment applies to Item 3 in Table 104-3. Abramson, David **Texas Instruments** Section 104.3.6.1 (additional information column) doesn't mention anything about dV/dt. Comment Type TR Comment Status R SuggestedRemedy This comment applies to Table 104-3 (continued). Add section to explain these specs (if needed) and correct the section referenced. Or The MVFS threshold is the same same as for existing AT PoE, but the operating current remove the additional information reference. can by more than twice as high (1.36A according to Table 104-1). In addition, event the new BT standard has doubled the MPS window width (4-14mA) for a Response Response Status C maximum load current of 1.73A (1.27x larger than PoDL). REJECT. I believe PDs need to drop their current to below 2mA in sleep mode (acutally Isleep pd is 100uA), so why not lower the minimum? Should reference 104.3.6.3. Change subclause title to "PSE ripple and transients". SuggestedRemedy Fix cross reference to be 104.3.6.3 and see 75 (do later). Increase the MVFS current range from (5mA to 10mA) to (2mA to 10mA). Response Response Status C C/ 104 SC 104.3.6 P 43 L 38 # 16 REJECT. Gardner. Andrew Linear Technology Cor Comment Status R Comment Type ER resubmit Discuss in room. Fix indent on item 6.

Response Status C

SuggestedRemedy See comment

REJECT, F7.

Response

C/ 104

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prewithdrawn

resubmit

2mA MFVS min may be too close Iwakeup max of 1.85mA. Is 3mA OK?

C/ 104 SC 104.3.6 P 44 L 14 # 17 Gardner. Andrew Linear Technology Cor Comment Status D withdrawn Comment Type TR Items 16-19 reference subclause 104.3.6.2.2.1 but it should be 104.3.6.2.2. SuggestedRemedy See comment Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. EZ. OBE by 103. C/ 104 SC 104.3.6 P 44 L 15 # 103 Abramson, David **Texas Instruments** Comment Type ER Comment Status A fix This comment applies to Table 104-3. Section 104.3.6.2.2.1 is referenced in the additional information colum for the sleep mode requirements. That section does not exist. SuggestedRemedy Change "104.3.6.2.2.1" to "104.3.6.2.2" Response Response Status C ACCEPT. P 44 # 14 C/ 104 SC 104.3.6.1 L 29 Gardner, Andrew Linear Technology Cor Comment Type T Comment Status R resubmit 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)

Add the following text to 104.3.6.1: "A PSE operating in the POWER ON state shall apply

Response Status C

SuggestedRemedy

REJECT.

Response

a voltage in the range of PSE(PON) at the PI.

Cl 104 SC 104.3.6.2.1 P 45 L 4 # 123

Abramson, David Texas Instruments

Comment Type TR Comment Status R reject
"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^2 t if they don't know the I?

SuggestedRemedy

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

Response Status C

REJECT.

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.

C/ 104 SC 104.3.6.4 P 45 L 23 # 124

Abramson, David Texas Instruments

Comment Type TR Comment Status R resubmit

"The specification for Tinrush in Table 104-3 applies to the PSE power up time allowed for

"The specification for Tinrush in Table 104-3 applies to the PSE power up time allowed to a PD after completion of detection."

The Tinrush timer does not start until after an optional classification cycle.

SuggestedRemedy

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

Response Status C

REJECT. EZ.

P 46 C/ 104 SC 104.4.3 L 33 # 42 C/ 104 SC 104.4.3.3 P 47 L 22 # 126 Gardner. Andrew Linear Technology Cor Abramson, David Texas Instruments Comment Status A fix Comment Status R Comment Type ER Comment Type TR resubmit Table 104-6 should be Figure 104-6 variable POR is poorly defined. Is power-on reset defined somewhere? This is a data spec after all. SuggestedRemedy SuggestedRemedy See comment Change variable to something like "pd_reset" as in PoE. See Clause 33 for proper text. Response Response Status C Response Response Status C ACCEPT. REJECT. Framemaker reference error. Replace POR with pd_reset and define as in 802.3at: P 46 L 44 C/ 104 SC 104.4.3.1 # 43 "An implementation-specific control variable that unconditionally resets the PD state diagram to the RESET state. Gardner. Andrew Linear Technology Cor Values: Comment Type TR Comment Status R resubmit TRUE: The device has been reset. FALSE: The device has not been reset (default)." tpwr_delay is not defined SuggestedRemedy Editorial license to fix PD state machine accordingly. change to tpowerdly C/ 104 SC 104.4.3.3 P 47 L 26 # 127 Response Response Status C Abramson, David Texas Instruments REJECT. EZ. Comment Type ER Comment Status R resubmit C/ 104 SC 104.4.3.1 P 46 L 44 # 62 The definitions of the "present_XXX" varaibles are poor. Gardner, Andrew Linear Technology Cor SugaestedRemedy Comment Type ER Comment Status R Change definition of TRUE and FALSE for present_det_sig, present_iwakeup, and resubmit present mfvs from "present the xxx signature" and "do not present the xxx signature." to: tpwr_delay' should be 'tpowerdly' "the xxx signature is to be applied to the PD PI." and "the xxx signature is not to be applied SuggestedRemedy to the PD PL" See comment Response Response Status C Response Response Status C REJECT. REJECT. EZ. P 47 C/ 104 SC 104.4.3.3 L 51 # 44 Gardner, Andrew Linear Technology Cor Comment Type ER Comment Status R resubmit PPD should be Ppd SuggestedRemedy See comment Response Response Status C

REJECT, EZ.

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 104 SC 104.4.3.3 Page 12 of 23 12/14/2015 4:44:11 PM

C/ 104 SC 104.4.3.5 P 48 L 18 # 45 C/ 104 SC 104.4.3.6 P 49 L 22 # 47 Gardner. Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Type ER Comment Status A fix Comment Type Comment Status R ER resubmit returns returns' should be 'returns' sccp_watchdog_tmr' should be 'sccp_watchdog_timer' SuggestedRemedy SuggestedRemedy See comment See comment Response Response Response Status C Response Status C ACCEPT. REJECT, FZ. C/ 104 SC 104.4.3.6 P 49 L 18 # 49 C/ 104 SC 104.4.3.6 P 49 L 26 # 128 Gardner, Andrew Linear Technology Cor Abramson, David **Texas Instruments** Comment Type E Comment Status D prewithdrawn Comment Type TR Comment Status R resubmit Use '&' instead of '*' to denote a logical AND This comment applies to Figure 104-6. The state diagram requires the pd_fault variable to be set to true when fault_detected SuggestedRemedy occurs. What is fault detected? How can I design a PD to do this? See comment SuggestedRemedy Proposed Response Response Status Z Add appropriate definitions for fault_detected and pd_fault. REJECT. Response Response Status C REJECT. This comment was WITHDRAWN by the commenter. Change fault detected TRUE definition to read as: C/ 104 SC 104.4.3.6 P 49 L 19 # 46 "TRUE: the PD no longer requires power as the result of an implementation specific error condition." Gardner, Andrew Linear Technology Cor Comment Status R Comment Type ER resubmit Example (not for inclusion): The PD has gone offline due to a thermal overload and needs to cool off. DO DETECTION' should be 'DO DETECTION' SuggestedRemedy C/ 104 SC 104.4.3.6 P 49 L 29 # 48 See comment Gardner, Andrew Linear Technology Cor Response Response Status C Comment Type ER Comment Status R resubmit REJECT, EZ. sccp_watchdog_tmr' should be 'sccp_watchdog_timer' SuggestedRemedy See comment Response Response Status C REJECT, EZ.

C/ 104 SC 104.4.4 P 49 L 42 # 86 C/ 104 SC 104.4.4 P 49 L 42 # 125 Gardner. Andrew Linear Technology Cor Abramson, David **Texas Instruments** Comment Status D Comment Type T prewithdrawn Comment Type TR Comment Status A fix The words 'A PD shall present a valid detection signature when Vpd drops below "A PD shall present a valid detection signature when VPD drops below Vsig_enable unless Vsig enable...' are confusing. it is asleep." What is "asleep"? How do we test that? SuggestedRemedy SuggestedRemedy Suggest using 'A PD shall enable a valid detection signature subsequent to Vpd dropping below Vsig enable...' 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 Z Response Response Status C REJECT. ACCEPT IN PRINCIPLE. This comment was WITHDRAWN by the commenter. Delete "unless it is asleep" in referenced text. C/ 104 L 42 # 63 SC 104.4.4 P 49 See comment 63. Gardner. Andrew Linear Technology Cor C/ 104 SC 104.4.4 P 49 L 43 # 64 Comment Type TR Comment Status D withdrawn Gardner, Andrew Linear Technology Cor A PD shall present a valid detection signature when Vpd drops below Vsig enable unless it Comment Type TR Comment Status D prewithdrawn is asleep' should be 'A PD shall present a valid detection signature when Vpd drops below Vsig_enable.' a PD shall removed the current draw of the detection signature.' is not quantified. SuggestedRemedy SuggestedRemedy See comment Add a limit to table 104-4 for Ipd when Vpd is greater than Vsig disable and less than VON that can be tested for compliance (1mA max?) Proposed Response Response Status Z Proposed Response Response Status Z REJECT. REJECT. This comment was WITHDRAWN by the commenter. This comment was WITHDRAWN by the commenter. OBE 125. C/ 104 SC 104.4.4 P 49 L 46 # 65 Gardner, Andrew Linear Technology Cor Comment Status R Comment Type ER resubmit Remove indent at beginning of line 46. SuggestedRemedy

See comment

REJECT. EZ.

Response

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 104 SC 104.4.4

Response Status C

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C/ 104 SC 104.4.4 P 49 L 46 # 66 C/ 104 SC 104.4.4 P 50 L 6 # 100 Gardner. Andrew Linear Technology Cor Abramson, David Texas Instruments Comment Type TR Comment Status D prewithdrawn Comment Type TR Comment Status R resubmit This comment applies to Table 104-4. Add Vgood before 'per Table 104-4'. The PD must be capable of producing a "Vgood" shunt for a 17mA current (item 1 of the SuggestedRemedy table), but must draw less than 20mA whenever the Voltage is less than Vsig_disable See comment (Isignature limit). This requires a current limit between 17mA and 20mA (+/- 8%). I believe this puts Proposed Response Response Status Z unnecessary requirements on the PD that will increase its cost. REJECT. SuggestedRemedy This comment was WITHDRAWN by the commenter. Change Isignature limit to 22mA. Response Response Status C SC 104.4.4 P 49 C/ 104 L 49 # 67 REJECT. Linear Technology Cor Gardner. Andrew Discuss in room. Comment Type TR Comment Status R resubmit This limit does need to be increaseds since the probe current was increased. There are only two characteristics in table 104-5. SuggestedRemedy C/ 104 SC 104.4.4 P 50 L 18 # 69 Delete 'at least' from sentence. Gardner, Andrew Linear Technology Cor Response Response Status C Comment Status R Comment Type TR resubmit REJECT. EZ. Iconnector' should just be 'lpd' in Table 104-5 SuggestedRemedy C/ 104 SC 104.4.4 P 50 L 5 # 68 See comment Gardner, Andrew Linear Technology Cor Response Response Status C Comment Type TR Comment Status R resubmit REJECT. Vconnector' should just be 'Vpd' in Table 104-4 SuggestedRemedy See comment

Response Status C

Response

REJECT.

C/ 104 SC 104.4.6 P 50 L 44 # 106 C/ 104 SC 104.4.6 P 51 L 41 # 105 Abramson, David Texas Instruments Abramson, David Texas Instruments Comment Type ER Comment Status D withdrawn Comment Type ER Comment Status R resubmit This comment applies to Items 1 and 2 of Table 104-6. This comment applies to item 7 of table 104-6. The section referenced in the additional information column (104.4.6.3) do not mention We need to reference section 104.4.6.1 for the inrush enable delay time (tpower dly) dl/dt or dV/dt requirements at all. SuggestedRemedy SuggestedRemedy Add "104.4.6.1" to additional information column. Add section to explain these specs (if needed) and correct the section referenced. Or Response Response Status C remove the additional information reference. REJECT. EZ. Proposed Response Response Status Z REJECT. C/ 104 SC 104.4.6 P 51 L 49 # 104 Abramson, David **Texas Instruments** This comment was WITHDRAWN by the commenter. Comment Type TR Comment Status A fix This comment applies to Table 104-6. Item 11 (sleep current) is never referenced in the specification text. It is defintely not it See comment 75. 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 C/ 104 SC 104.4.6 P 50 L 52 # 107 SuggestedRemedy **Texas Instruments** Abramson, David Change "ISleep" to "ISleep PD" in section 104.4.6.2 and change reference in table 104-6 Comment Status A fix Comment Type ER to this section. This comment applies to Item 3 of Table 104-6. Response Response Status C The section referenced in the additional information column is the PSE section not the PD ACCEPT. section. SuggestedRemedy See comment 73. Change reference from "104.3.6.3" to "104.4.6.3" # 70 C/ 104 SC 104.4.6 P 51 L 51 Response Response Status C Gardner, Andrew Linear Technology Cor ACCEPT. Comment Type ER Comment Status R resubmit # 58 C/ 104 SC 104.4.6 P 51 L 1 See 104.4.6.2' is not linked Gardner, Andrew Linear Technology Cor SuggestedRemedy Comment Status R Comment Type ER resubmit See comment Table 104-6 title should have 'continued' at top of page 51 Response Response Status C SuggestedRemedy REJECT, F7. See comment

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

Response Status C

Response

REJECT, EZ.

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C/ 104 SC 104.4.6 P 51 L 51 # 39 C/ 104 SC 104.4.6.1 P **52** L 6 # 71 Gardner, Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Type Comment Status R Comment Status D ER resubmit Comment Type T prewithdrawn "See 104.4.6.2" is not linked The words 'startup', 'and within the first trial' appear to be superfluous in the sentence on SuggestedRemedy SuggestedRemedy See comment See comment Response Response Status C Proposed Response Response Status Z REJECT, EZ. REJECT. C/ 104 SC 104.4.6.1 P 52 L 4 # 51 This comment was WITHDRAWN by the commenter. Gardner, Andrew Linear Technology Cor Comment Type TR Comment Status R resubmit C/ 104 SC 104.4.6.1 P **52** L 20 # 129 The PD shall turn off at a voltage greater than or equal to Voff' should be 'The PD shall turn Abramson, David **Texas Instruments** off at a voltage less than Von(min) and greater than or equal to Voff min as defined in Table 104-6'. Comment Type ER Comment Status A SuggestedRemedy We should avoid using numbers in the text, but rather create parameters to reference. VPI See comment has a direct range in the text (3.1 to 3.5V). SuggestedRemedy Response Response Status C Either create a parameter fo rthis voltage range, or reference the PSE sleep voltage (but its REJECT. not guite the same due to cable drop). C/ 104 SC 104.4.6.1 P **52** L 6 # 72 Response Response Status C Gardner, Andrew Linear Technology Cor ACCEPT IN PRINCIPLE. Comment Status R Comment Type TR resubmit Change 104.4.6.2 text as follows: Change Vport_PSE to just Vpse for consistency. "A PD that requires ... when Vsleep PD min < Vpd <Vsleep max as specified in Tables SuggestedRemedy 104-4 and 104-6, respectively." See comment See comments 55, 68 regarding usage of Vpd. Response Response Status C REJECT. C/ 104 SC 104.4.6.2 P **52** L 16 # 52 Linear Technology Cor Gardner, Andrew Comment Status A Comment Type TR SLEEP PENDING' and 'SLEEP' should be 'DISCONNECT' and 'PD SLEEP', respectively. SuggestedRemedy

See comment

ACCEPT.

Response

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

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Response Status C

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fix

fix

Cl 104 SC 104.4.6.2 P 52 L 17 Gardner, Andrew Linear Technology Cor	# 53	C/ 104 SC 104.4.6.2 P 52 L 19 # 74 Gardner, Andrew Linear Technology Cor
Comment Type TR Comment Status A Isleep' should be 'Isleep_PD' SuggestedRemedy See comment	fix	Comment Type ER Comment Status R resubmit Twakeup_PD shouldn't wrap at the end of the line. SuggestedRemedy See comment
Response Response Status C ACCEPT.		Response Response Status C REJECT. EZ.
C/ 104 SC 104.4.6.2 P 52 L 17 Gardner, Andrew Linear Technology Cor	# 73	Cl 104 SC 104.4.6.2 P 52 L 19 # 54 Gardner, Andrew Linear Technology Cor
Comment Type TR Comment Status D Change 'Isleep' to 'Isleep_PD'	withdrawn	Comment Type TR Comment Status A fix Twakeup_PD' is not defined in table 104-6
SuggestedRemedy See comment		SuggestedRemedy Add Twakeup_pd to table 104-6 with a min of 0.2ms
Proposed Response Response Status Z REJECT.		Response Response Status C ACCEPT.
This comment was WITHDRAWN by the commenter.		See comment 40.
OBE by 104.		C/ 104 SC 104.4.6.3 P 52 L 24 # 75 Gardner, Andrew Linear Technology Cor Comment Type T Comment Status A fix
Cl 104 SC 104.4.6.2 P 52 L 19 Gardner, Andrew Linear Technology Cor	# 40	Consider replacing 'noise' with 'transient' in this subclause. SuggestedRemedy
Comment Type TR Comment Status D There is no Twakeup_pd in table 104-6	withdrawn	Replace 104.4.6.3 with
SuggestedRemedy Add Twakeup_pd to table 104-6 with a min of 0.2ms		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
Proposed Response Response Status Z REJECT.		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
This comment was WITHDRAWN by the commenter.		and transient limits are provided to preserve data integrity. Response Response Status C
See comment 54.		ACCEPT. See comment 106.

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ **104** SC **104.4.6.3** Page 18 of 23 12/14/2015 4:44:11 PM

P **52** C/ 104 SC 104.4.6.3 L 26 # 76 C/ 104 SC 104.4.6.4 P **52** L 35 # 41 Gardner, Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Type TR Comment Status R Comment Status R resubmit Comment Type TR resubmit Replace 'input power of the device' with just 'Ppd'. reference to Pclass_pd in table 104-1. There is no Pclass_pd but there is a Ppd. Are these the same? SuggestedRemedy SuggestedRemedy See comment Change text from Pclass_pd to Ppd. Response Response Status C Response Response Status C REJECT. REJECT, EZ. C/ 104 SC 104.4.6.3 P 52 L 26 # 55 Use Ppd throughout. Gardner, Andrew Linear Technology Cor P 52 C/ 104 SC 104.4.6.5 L 44 # 78 Comment Type E Comment Status R resubmit Gardner, Andrew Linear Technology Cor Vport PD' should be 'Vpd' Comment Type TR Comment Status R resubmit SuggestedRemedy Remove all instances of 'port_' from the subscripts used by Equation 104-1. See comment SuggestedRemedy Response Response Status C See comment REJECT. EZ. Response Response Status C See 68. REJECT. C/ 104 SC 104.4.6.4 P **52** L 35 # 77 SC 104.4.7 C/ 104 P 53 L 10 # 56 Gardner, Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Type TR Comment Status R resubmit Comment Type TR Comment Status A fix Replace 'Pclass PD' with just 'Ppd'. TMFVDO_PD is not defined. SuggestedRemedy SuggestedRemedy See comment Change parameter for item 8 in Table 104-6 to "PD Maintain Full Voltage signature Response Response Status C duration" and change "TMFVDO PD" to "TMFVDO min" and add reference to table 104-3 REJECT. item 13 in subclause 104.4.7. Response Response Status C ACCEPT.

P **52** C/ 104 SC 104.5.1 L 18 # 79 C/ 104 SC 104.6.3.2 P 56 L 16 # 84 Gardner, Andrew Linear Technology Cor Gardner, Andrew Linear Technology Cor Comment Type TR Comment Status R Comment Type TR Comment Status D resubmit prewithdrawn A PD shall provide DC isolation...' is not quantified making a compliance test meaningless. No description or requirement for tssw is given. SuggestedRemedy SuggestedRemedy Propose "A PD shall ... all MDI leads of greater than 1 megaohm for voltages up to 60V". State that the slave shall sample the Vpd within the range of tssw during a write 1 or write 0 operation. Response Response Status C Proposed Response Response Status Z REJECT. REJECT. C/ 104 SC 104.6.1 P 54 L 27 # 130 This comment was WITHDRAWN by the commenter. Abramson, David **Texas Instruments** Comment Type ER Comment Status R resubmit C/ 104 SC 104.6.3.2 P 56 L 18 # 80 We shouldn't call out a direct implementation. Gardner, Andrew Linear Technology Cor SuggestedRemedy Comment Type ER Comment Status R resubmit Change "the master device" to "a master device" or "an example of the master device" Change 'slots' to 'slot' in this sentence. Response Response Status C SuggestedRemedy REJECT. EZ. See comment Change reference text to "the block diagram of a master device." Response Response Status C REJECT. EZ. C/ 104 SC 104.6.3.1 P 55 L 38 # 131 Abramson, David Texas Instruments C/ 104 SC 104.6.3.2 P 56 L 23 # 82 Comment Type ER Comment Status R resubmit Gardner, Andrew Linear Technology Cor This paragraph seems to have a different line spacing than the rest Comment Type T Comment Status D prewithdrawn SuggestedRemedy The words 'release and then' appear to be superfluous. Fix if this is true. SuggestedRemedy Response Response Status C Delete 'release and then' REJECT. EZ. Proposed Response Response Status Z REJECT.

This comment was WITHDRAWN by the commenter.

C/ 104 SC 104.6.3.2 P 56 L 25 # 83 C/ 104 SC 104.6.3.4 P 57 L 50 # 102 Gardner, Andrew Linear Technology Cor Abramson, David **Texas Instruments** Comment Type T Comment Status D prewithdrawn Comment Status A Comment Type TR The words 'hold and then' appear to be superfluous. This comment applies to Table 104-7. "Vport < 0.8V" in the additional information column for "Sink Current" does not seem right. SuggestedRemedy How can the Sink Current have a minimum when the PI voltage is 0? There will be no Delete 'hold and then' current drawn then. Proposed Response SuggestedRemedy Response Status Z REJECT. Should the "<" be a ">"? I think that is what was meant... Response Response Status C This comment was WITHDRAWN by the commenter. ACCEPT. C/ 104 SC 104.6.3.4 P **57** L 40 # 81 Change < to >. Gardner, Andrew Linear Technology Cor This parameter may need to be replaced with a VOL<0.8V specification instead while Comment Type TR Comment Status D prewithdrawn sinking 16mA. Specifications for rise time and fall time are absent from Table 104-7. C/ 104 SC 104.6.3.4 P 57 L 50 # 101 SuggestedRemedy Abramson, David **Texas Instruments** Add specifications for fall time and rise time with maximums of 100us and 230us. Comment Type TR Comment Status A respectively based on timing proof from presentation stewart_3bu_1_1015.pdf. This comment applies to Table 104-7. Proposed Response Response Status Z The minimum sink current needs to be updated as the maximum probe current is now REJECT. 16mA SuggestedRemedy This comment was WITHDRAWN by the commenter. Change minimum Sink Current from 10mA to 18mA to include the 16mA sourcing current and some margin. SC 104.6.3.4 C/ 104 P **57** L 47 # 85 Response Response Status C Linear Technology Cor Gardner, Andrew ACCEPT IN PRINCIPLE. Comment Type ER Comment Status R resubmit Use 16mA Add 'voltage' to the parameter descriptions for items 2 and 3 in table 104-7.

See comment 100.

Response Status C

SuggestedRemedy

Response

See comment

REJECT, EZ.

fix

fix

C/ 104 SC 104.6.3.4 P 58 L 9 # 87 C/ 104 SC 104.7.4 P 62 L 1 # 90 Gardner, Andrew Linear Technology Cor Chabot, Craig UNH-IOI Comment Type ER Comment Status R Comment Type resubmit ER Comment Status A fix Add 'time' to parameter descriptions for items 9-15 The changes from D1.3 to D1.4 have consequently necessitated changes to the PICS (some shalls have either been added, removed, or altered). I have drafted a new, SuggestedRemedy corrected version of the PICS tables. See comment SugaestedRemedy Response Response Status C See chabot 3bu 1 1115 REJECT, EZ. Response Response Status C ACCEPT. C/ 104 SC 104.6.4.3 P 59 L 1 # 88 Gardner, Andrew Linear Technology Cor C/ 104 SC Table 104-1 P 32 L 21 # 91 Comment Type ER Comment Status D prewithdrawn Gardner, Andrew Linear Technology Figure 104-12 should be 'Address and Read Scratchpad function command flowchart' Comment Type T Comment Status R resubmit SuggestedRemedy The assumption that the reference channel resistance is 15m of 26 AWG is limiting for PoDL. See comment Proposed Response SuggestedRemedy Response Status Z Consider changing the reference channel to 15m of 22 AWG. REJECT. Response Response Status C This comment was WITHDRAWN by the commenter. REJECT. C/ 104 SC 104.6.4.4 P 59 L 50 # 89 Discuss in room. See comments 60 and 93. Gardner, Andrew Linear Technology Cor C/ 104 SC Table 104-1 P 35 L 22 # 59 Comment Type ER Comment Status D prewithdrawn Gardner, Andrew Linear Technology Cor Add note explaining R/W and RO Comment Type Ε Comment Status D prewithdrawn SuggestedRemedy Table 104-1 should be enclosed within its own subclause 'System class power See comment requirements' Proposed Response Response Status Z SuggestedRemedy REJECT. Add a new subclause 'System class power requirements' and include Table 104-1. This comment was WITHDRAWN by the commenter. Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. This comment was WITHDRAWN by the commenter.

60 C/ 104 SC Table 104-1 P 35 L 34 Gardner, Andrew Linear Technology Cor Comment Type TR Comment Status A fix 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

Response Response Status C

ACCEPT.

See comment 93.

C/ 104 SC Table 104-1 P 35 L 36 # 61

Gardner, Andrew Linear Technology Cor

Comment Type TR Comment Status D prewithdrawn

IPI (max) can be exceeded during inrush

SuggestedRemedy

Add a new footnote 3 that states that IPI(max) may be exceeded during inrush.

Proposed Response Response Status Z

REJECT.

This comment was WITHDRAWN by the commenter.