

USB Power Delivery ENGINEERING CHANGE NOTICE

Title: USB PD R3.0 V1.2 Title tPpsCLProgram

tPpsCVCLTransient tPpsCLSettle min limit removal

**Applied to: USB Power Delivery Specification Revision 3.0
Version 1.2**

Brief description of the functional changes proposed:
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Removal of the minimum specification limit for the following parameters: tPpsCLProgram, tPpsCVCLTransient and tPpsCLSettle. This will remove the minimum settling time limitation for implementations that have a fast settling time. The original intent of the minimum limit was to avoid system instabilities during CL operation. Feedback from implementers, supported by feedback from compliance testing, indicate this minimum time limitation is not necessary.
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Benefits as a result of the proposed changes:
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This will remove an unnecessary constraint on PPS implementations

An assessment of the impact to the existing revision and systems that currently conform to the USB specification:
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Systems that presently conform to the existing revision will continue to conform when the minimum limit is removed.

An analysis of the hardware implications:
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None.

An analysis of the software implications:
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None.

An analysis of the compliance testing implications:
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None.

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Actual Change Requested

(a). Update to Table 7-22

From Text:

<i>tPpsCLProgramSettle</i>	PPS Current Limit programming settling time	125		250	ms	Section 7.1.4.4
<i>tPpsCLSettle</i>	CL load transient current settling time.	125		250	ms	Section 7.1.4.4
<i>tPpsCVCLTransient</i>	CV to CL transient settling time.	125		250	ms	Section 7.1.8.1

To Text:

<i>tPpsCLProgramSettle</i>	PPS Current Limit programming settling time.			250	ms	Section 7.1.4.4
<i>tPpsCLSettle</i>	CL load transient current settling time.			250	ms	Section 7.1.4.4
<i>tPpsCVCLTransient</i>	CV to CL transient settling time.			250	ms	Section 7.1.8.1