Meeting to get consensus, March 12, 2002

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- We believe that the PSE based AC disconnect detection is technically feasible.

- Wording Suggestion to the Draft.

- <u>PD part</u>

- Paragraph 33.3.5

  - a) No change.

  - b) Delete old text and replace with:

  - "PD ac input impedance of 5K max, from 10Hz to 500Hz when tested at PD port input at normal powering mode."

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- ## PSE Part

- ## Paragraph 33.2.10

- Remove old text and replace with:

- The PSE will monitor the link and shall disconnect the power from a port when a PD is removed or no longer request power.

- The PSE shall disconnect the power from the port within the limits of Tpmdo if:

  a) the minimum current as defined in table 12, item 5 is not maintain or

  b) the PSE port ac impedance is greater than 5K (*) for the frequency
     range of 10Hz to 500Hz.

(*) to Discuss on Wednesday if we should specify margins and gray area to the PSE as we did to the resistor detection or leave it to the comment resolution for the new draft.

PSE AC disconnect detection – black box definitions

- Table 5, Item 3: Specify ac amplitude up to 500Hz at no load condition=5Vpp max.

- Disconnect detection ac voltage amplitude, V_open=5Vpp **max**, 2.5Vpp **min**.

  - PSE port output voltage shall not exceed 60V during disconnect detection phase. (Vdc+Vac=60Vmax)

- Disconnect detection ac voltage source series impedance: 5K min.

- Disconnect detection ac voltage frequency: 77Hz typical. min/max= TBD

- Disconnect threshold min =0.7xV_open min, 0.8xV_open max.

- Disconnect detection time: as specified by TPMDO or 400ms max, when ac disconnect alternative is used.

- Min ac pulses: 2. Max. no limit.