REQUESTED REVISION: To revise section 33.3.7.1 and 33.3.7.3 to include below mentioned changes

STANDARD: IEEE Std 802.3-2012
CLAUSE NUMBER: 33
CLAUSE TITLE: Data Terminal Equipment (DTE) Power via Media Dependent Interface (MDI)

PROPOSED REVISION TEXT:
Request the following text be added as note to section 33.4.1
Add the following to section 33.3.7.3
"PDs shall not draw more than the maximum current allowed by a PSE during inrush as outlined in section 33.2.7.5"
Change 2nd paragraph of Section 33.3.7.1 as follows (change shown in underline)
"The PD shall _not_ turn on until a voltage greater than Voff and less than or equal to Von"

RATIONALE FOR REVISION:
PDs in the field turn on their DC-DC load during inrush. This leads to PD cap not charging up fully (even if PD cap is <180uf PSE is following inrush rules from Section 33.2.7.5). This may lead to operational problems after inrush. There is a Voff requirement in PD table 33-18 to ensure power supply remains turned off for V<30V, but customers seem to read this as applicable only "after power on" not during "power on" - hence ether turn on their DC-DC during inrush causing problems.

IMPACT ON EXISTING NETWORKS:
Nothing.